Druids in Vermont? Phoenicians in Iowa before the time of Julius Caesar? The first major work to penetrate the mystery of America's remote past.

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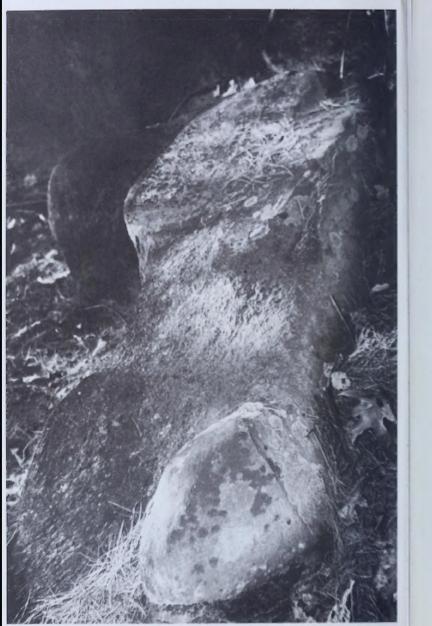
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AMERICA BC.

Ancient Settlers in the New World by Barry Fell



America B.C.



AMERICA B.C.

Ancient Settlers in the New World

BARRY FELL



FRONTISPIECE.

Venus of the snows, the mother goddess of the American Celts, lying as we found her, on a pine-clad slope of the Green Mountains. Inscriptions on the ruins of nearby temples give her Celtic name as Byanu: circa 500 B.C. See page 244.

Justit D. Germans



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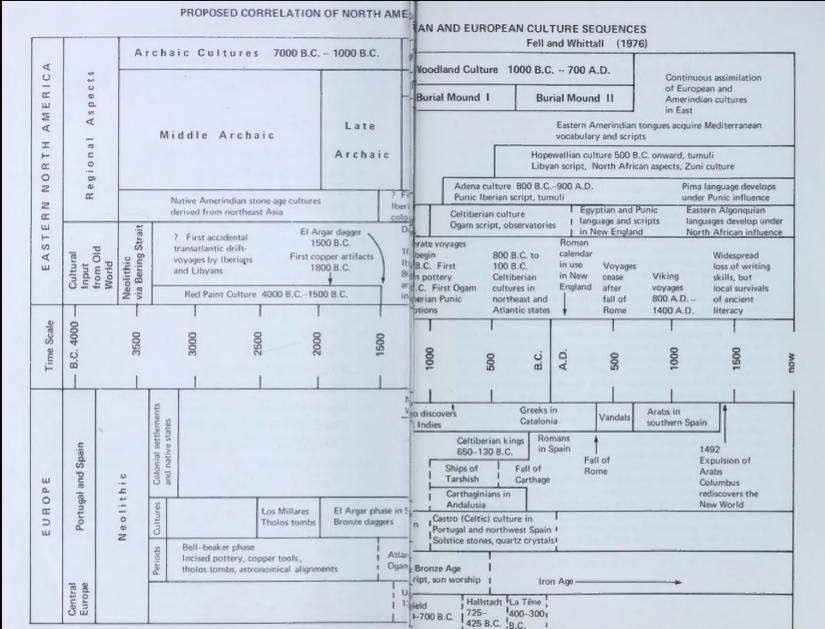
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permitted us to study the monuments on their properties—and who, until the antiquities are safely protected, cannot at this time be named; and especially to my two advisors in writing this book, Edward Gruson, who is an inspiring editor, and my wife Rene, who creates the environment in which books are apt to be written.

To these good friends and others who contributed their knowledge and

time I offer my grateful thanks.

After the text of the book had already gone to press a number of important new finds came to my attention, in some cases through correspondents who had seen press reports on the New England inscriptions. Additional illustrations and brief captions have been incorporated, but fuller details will be given in the Occasional Publications of the Epigraphic Society. I wish to thank the following colleagues through whose efforts the material was collected and photograped in time for inclusion here: Gloria Farley, Dr. Edward J. Pullman, Gertrude Johnson, James P. Whittall, Dr. Clyde Keeler, Weldon W. Stout, and Malcolm Pearson. To Ruth K. Hanner, who materially supported the field program of the Epigraphic Society, the gratitude of all epigraphers is due.

Museum of Comparative Zoology Harvard University November 1975

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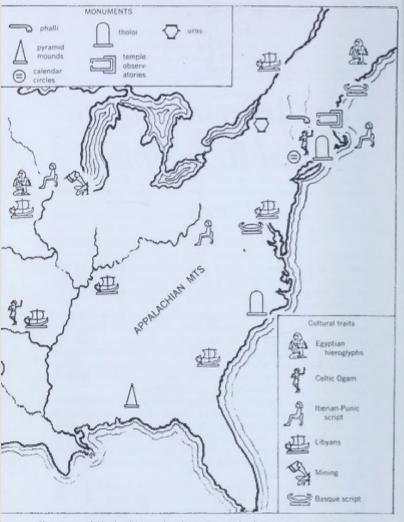
An American Enigma and Its Solution

WO centuries of independence, two hundred years of national awareness, these are the underlying themes of countless festivities now in progress or planned throughout fifty American states. The world at large pauses a moment to reflect upon the prodigy that grew from the thirteen rebellious colonies when George III lost his American domains.

But wait a bit. There is more to America's past than appears upon the surface. A strange unrest is apparent among many of the younger historians and archeologists of the colleges and universities, a sense that somehow a very large slice of America's past has mysteriously vanished from our public records. For how else can we explain the ever-swelling tally of puzzling ancient inscriptions now being reported from nearly all parts of the United States, Canada, and Latin America?

The inscriptions are written in various European and Mediterranean languages in alphabets that date from 2,500 years ago, and they speak not only of visits by ancient ships, but also of permanent colonies of Celts, Basques, Libyans, and even Egyptians. They occur on buried temples, on tablets and on gravestones and on cliff faces. From some of them we infer that the colonists intermarried with the Amerindians, and so their descendants still live here today.

There was once a time when such finds were attributed to the misguided folly of uprooted colonists from Europe, to forgers or cranks fabricating tradition for a society that has none. But skepticism changed to bewilderment when it was discovered that American inscriptions, some of them known for a century or more, turn out to have been written in



European and North African cultural interfaces and colonies, circa 800 n.c. For sailing routes, see map on pages 106-107.

ancient scripts of a type only recently deciphered in Europe or North Africa. Thus the truth has slowly come to light, ancient history is inscribed upon the bedrock and buried stone buildings of America, and the only hands that could have inscribed it were those of ancient people. America, as we now realize, is a treasure house of records of man's achievement upon the high seas in bygone ages. Even more so are our inscribed rocks and tablets a heritage from a forgotten era of colonization. They tell us of settlers who came from the Old World and who remained to become founding fathers of some of the Amerindian nations.

These ancient writings can easily be classified into some half dozen styles, each now known to be associated with one or other of several ancient peoples whose languages have been in part recovered. New inscriptions are being discovered almost every day, from localities thousands of miles apart, usually under circumstances that preclude any possibility of fraud.

This book gives the plain facts about the inscribed stones together with an explanation of how the messages are being deciphered, and what they tell us about the people who wrote them and how they came to be in America some two thousand to three thousand years ago. But it is also my hope that something more than just the plain facts of the research may find its way into these pages. Something of the simple joys of shared discoveries (for what use is there in finding something new if there is no one to tell about it?); something of the good companionship of the men and women who contribute so much of their time and knowledge to exploring our back-country hills or searching the cliffs of offshore islets for long-forgotten carvings made by ancient mariners; and something, too, of our occasional disappointments, for it has not been an easy road all the way and sometimes it has demanded more than the usual modicum of good humor to temper patience with tenacity.

These remarkable and hitherto unsuspected facts have come to light this past summer (of 1975) in the course of an archeological survey of New Hampshire and Vermont. The hundreds of inscriptions among the ruins attest the vitality of Celtic civilization in pagan times, and tell a wonderful story of how Europeans lived in the Bronze Age. Our first season's work has yielded only hints of the fate of the Celtic kingdoms, but this book relates what we have been able to find out of the first thousand

years or so of their settlements in North America.

About three thousand years ago bands of roving Celtic mariners crossed the North Atlantic to discover, and then to colonize, North America. They came from Spain and Portugal, by way of the Canary Islands, sailing the trade winds as Columbus also was to do long afterward. The advantage of this route is that the winds favor a crossing from east to



Two generations ago Edward Read was plowing his property near White River, Vermont, when the earth gave way beneath him, and he discovered an underground passage leading into this chamber. Here John Williams examines the interior. Deeply inscribed letters on a buried lintel later disclosed that the chamber is a small temple dedicated to the sun god Bel. Peter J. Garjall

west, but for Celts accustomed to a temperate climate it had the one drawback that it led them to the tropical West Indies, no place for northerners. So although their landfall lay in the Caribbean, it was on the rocky coasts and mountainous hinterlands of New England that most of these wanderers finally landed, there to establish a new European kingdom which they called *largalon*, "Land Beyond the Sunset." They built villages and temples, raised Druids' circles and buried their dead in marked graves. They were still there in the time of Julius Caesar, as is attested by an inscribed monolith on which the date of celebration of the great Celtic festival of Beltane (Mayday) is given in Roman numerals appropriate to the reformed Julian calendar introduced in 46 s.c.

In the wake of the Celtic pioneers came the Phoenician traders of Spain, men from Cadiz who spoke the Punic tongue, but wrote it in the peculiar style of lettering known as Iberian script. Although some of these traders seem to have settled only on the coast, and then only temporarily, leaving a few engraved stones to mark their visits or record their claims of territorial annexation, other Phoenicians remained here and, together with Egyptian miners, became part of the Wabanaki tribe of New England. Further south, Basque sailors came to Pennsylvania and established a temporary settlement there, leaving however no substantial monuments other than grave markers bearing their names. Further south still, Libyan and Egyptian mariners entered the Mississippi from the Gulf of Mexico, penetrating inland to Iowa and the Dakotas, and westward along the Arkansas and Cimarron Rivers, to leave behind inscribed records of their presence. Norse and Basque visitors reached the Gulf of St. Lawrence, introducing various mariners' terms into the language of the northern Algonquian Indians. Descendants of these visitors are also to be found apparently among the Amerindian tribes, several of which employ dialects derived in part from the ancient tongues of

An American Enigma and Its Solution

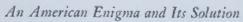
Phoenicia and North Africa.

The Celts seem first to have settled near the mouths of rivers of New England, as at North Salem on a branch of the Merrimac River in southern New Hampshire. At some time they ascended the Connecticut River, sailing as far north as Quechee, Vermont, where a western branch of the river joins the main stream through a precipitous gorge. Attracted doubtless by the seclusion of the uplands beyond the gorge, the Celts turned westward and colonized the hanging valleys of the Green Mountains. Quechee, incidentally, perpetuates the ancient Gaulish pronunciation of the Celtic word quithe, meaning chasm or pit, and the river that flows through the gorge, the Ottauquechee, similarly is an Amerindian rendering of the Celtic name meaning Waters-of-the-Chasm.

In the secluded valleys and on the hilltops, the priests (or Druids) erected the temples and circles of standing stones required by their religious beliefs, using, like their European cousins, the great stone boulders left upon the land by the retreating glaciers at the end of the ice age. On these stones they cut their inscriptions, using the ancient Celtic alphabet called Ogam.

In Europe the Celts doubtless did the same, but when Christianity came to the Celts the priests caused all the ancient pagan inscriptions to be erased, replaced by Christian Ogam, or left blank, while all the offending fertility paraphernalia were totally destroyed.

Not so in America. Here Christianity never came to the Celts, their old pagan inscriptions remain intact, and a host of giant stone phalluses char-







acterize the places of worship. Here we may yet see and read the ancient inscriptions of the rite of initiation to manhood, and see the sites of ritual worship of the powers of fertility in nature. In short, we have preserved in North America the oldest phases of religious thought and action of European man, of which only the merest traces have survived in Europe itself.

The consequences of these discoveries for archeology and history are, of course, immeasurable. As one historian, Professor Norman Totten, has pointed out, it means that 2,500 years of American prehistory must now be transferred to history; for history begins when writing begins, and we now have the oldest written documents of our nation, and the names of the men who wrote them. For archeology a whole new view is called for. During the past hundred years the belief that no European settled America before Leif Eriksson or Columbus has grown from an hypothesis into a firmly rooted dogma.

For European archeology, where more liberal views as to the antiquity of the Celts have been developing in recent years, the new discoveries in America may be expected to bring a flow of information on such topics as the dates of construction of megalithic buildings, as well as on the purposes for which they were used, and the gods whose rites were once performed within their precincts. For in as much as no Christian priests came to expunge the pagan inscriptions from the megalithic monuments of New England, America's surviving records may well supply the key to discovering who built the corresponding structures in Europe, where no trace remains of inscriptions made before the coming of Christianity.

When we reflect upon the events of the past two centuries of America's nationhood, we perceive that the course of British and American history is shaped like the letter Y. The lower upright of the Y represents the common stream of Europe's cultural heritage, reading upward until we reach the fork of the Y, which represents 1776. Thereafter America and Britain part company, each to pursue a separate path toward whatever destiny may lie in store.

Now it is an indisputable fact that not only has the history of the two

Early colonists in eastern America, as they saw themselves. Above, right, a Celtic portrait from Stark County, Ohio. This sculpture represents Bel, the sun god, and his Afro hairstyle symbolizes radiant energy. Right, a maritime Celt as depicted by a sculptor of ancient time; this stolid portrait still stands in the open oir in Vannes, Brittany, and a similar head, excavated in New England, is now in the Peabody Museum, Salem, Mass. Left, an olive-skinned Libyan, as seen by a mosaic artist of Roman Tunisia. The Libyans were the ancient world's most brilliant navigators and explorers. The Zuni people of the southwest descend in part from ancient Libyan sailors, whose language they have preserved in a modified form to this day. Dr. Clude Keeler, Joseph D. Germano

English-speaking nations bifurcated like the arms of the Y, but also the teaching of history in the schools and colleges of the two nations has followed a similar divergence. British children continue to learn the history of Britain from the remotest stone-age era, through the Celts, the Roman invaders, the Saxon invasions, the Norman invasion, and so on through the middle ages into the present era. American children, on the other hand, use history books which (to judge by the examples that teachers have given me) begin with an account of the benighted state of Europe in 1492 and lead directly, as you turn the first page, to a portrait of Christopher Columbus, followed by an account of his daring exploits and discoveries.

Here you have in a nutshell the difference in approach to history as presented in the schools that most people attend on either side of the Atlantic. For the European, history begins in vague, remote, and romantic mists of antiquity and slowly emerges into the brighter illumination of more recent time. For the American, history begins with the crash of cymbals as great and famous men stride onto the stage, fully documented or so nearly so that one might be pardoned for thinking that their birth certificates and social security cards are stored in the national archives in Washington. Two English humorists, in the book 1066 and All That, suggested some years ago that there are only two dates in history that British people can remember-55 now when Julius Caesar landed in Britain, and 1066, when William the Conqueror conquered. It is their mock-serious thesis that since the common man in Britain remembers no other event well enough to date it, no other events exist in British history! I suspect that an analogous satire on American history would have discovered essentially the same thing, except that the two dates every American remembers are 1492 and 1776. Hence there can be no American history prior to 1492, quod erat demonstrandum.

Of course the argument is false, but it does contrive to point out, in a blundering way, the nature of certain profound differences in the view of history as seen from the two sides of the Atlantic. Now let me restate the matter, this time with chapter and verse, and this time in earnest.

The year is 1712. Queen Anne rules in England, by remote control also in New England. Learned savants of the kingdom are at work studying ancient monuments and reporting their finds to the Royal Society in London. From Ireland a famous Welsh antiquary named Edward Lhyd (pronounced Lloyd) reports to the Society that he has just discovered a previously unknown kind of writing engraved on a stone at Trabeg, near Dingle, in County Kerry. Lhyd has no idea as to what the inscription might mean, or what language it is written in, but he takes care to make a copy of it to send to the Royal Society. Hopefully, he reasons, sometime

Edward Lhyd's transcription of the Ogam be found inscribed on a rock near Dingle, County Kerry, Ireland, about the year 1702. The copy, which contains numerous errors, was found in 1808 in a notebook which came into the possession of Peter Roberts, a friend of Vallancey's. When the writing was identified as Ogam, the stone was found to be a memorial to a person named Brusce.

someone may discover a key to the writing system, and then perhaps the Trabeg inscription may turn out to be important. Here, for the time being, action ceases on this particular problem.

Meantime, across the seas in New England, a Puritan elergyman named Cotton Mather has discovered some strange writing on a rock at Dighton, Massachusetts. He, too, writes to inform the Royal Society in London of his find, and the Society duly records his letter in the *Transactions* of the

Society for 1712.

No further advance in epigraphy was made for two generations, during which time span America became a separate nation, with her own learned societies publishing their own records of research and philosophical inquiry. One unfortunate result was that whereas Lhyd's inscription in Ireland continued to exercise the minds of savants in Britain, Cotton Mather's report from New England now ceased to have any direct interest for British investigators and (since it was recorded in a British journal) it was simply forgotten in America. This was the parting of the ways of British and American antiquaries, as is well illustrated by the subsequent fate of the two reports that had been made in 1712. In contrast to the oblivion that now enveloped Cotton Mather's letter, the corresponding letter from Lhyd was to generate both a controversy and eventual enlightenment.

More than seventy years later, on June 24, 1784, a letter was received by the Society of Antiquaries in London from a certain Colonel Charles Vallancey, in Ireland, informing the Society that he had discovered an ancient Irish tombstone on Mount Callan, County Clare. He had been able to decipher the writing on it, so he reported, and found that it marked the grave of an ancient Irish chieftain named Conan Colgae. This startling information was accompanied by an explanation of how the decipherment had been carried out, and how he had recognized the writing as a script called Ogam, identical with the unknown script that Lhyd had reported three generations earlier.

In a later chapter you will find the explanation of Charles Vallancey's brilliant achievement. He was the first of a long line of linguists who have been responsible for virtually every major decipherment in archeology. Most of them have not been professional linguists teaching in a university department of languages, but rather men whose occupation requires them

to deal with mathematical probability theory, or algebra, or some other activity involving the solution of mutually dependent variables.

My own interest in languages stems from high-school days, when I first began to collect miscellaneous Etruscan words quoted by Latin authors whose works we read. Later I followed the work of Michael Ventris, a London architect who solved the writing called Linear B found on ancient tablets of Crete, Like others at that time, I rejoiced in his final success but mourned when his last paper arrived accompanied by a letter from the Hellenic Society reporting his death in a street accident. Apart from an early interest in ancient languages for their own sake, my work as a marine biologist led me to investigate ancient Libyan inscriptions found on remote islands in the Pacific, for these seemed likely to throw light on how man's dispersal across the earth may be influenced by winds and ocean currents.

But the point I wish to make as I close this chapter is that the parting of the ways of American and British savants following the revolution meant that Vallancey's discovery passed unnoticed in New England. The whole documentation of the oldest known literate Celtic society in the world-here in New England-even its very existence, was doomed to lie in limbo for two more centuries. Eight generations of American youth went to school, learned to think of the United States as a nation without historical roots in the soil of the new world, and without any traditions into the remote past save the undocumented speculations of those who looked toward the Bering Straits as the one and only portal of entry for pre-Columbian man. All Amerindian languages were classed together as supposed indigenous products of the New World, and the massive Phoenician, Libyan, and other old-world elements of their vocabularies passed underected. Scripts that have been deciphered and well doesmented in Europe have, when discovered in American contexts, generally been dismissed as "marks made by plowshares or the action of the roots of trees," leading to the ridiculous inference that the same must also be true in Europe. When I surreptitiously introduced a well-authenticated Phoenician inscription from Sardinia into an exhibit of my American inscriptions and showed it at a lecture I gave in a department of archeology at a well-known university, no one seemed to notice any difference between the Susquehanna or Pennsylvania stones and the Mediterranean intruder!

Indeed, there was a time when I found it hard to get any archeology professor to examine inscribed stones, and when they did, as often as not the inscriptions were held upside down or sideways. The plain truth is that ancient languages are not usually studied by archeologists in America. So the arbiters of such research here really had little or no knowledge of the ancient scripts which they so readily dismissed as fortuitous markings made by the roots of trees or by plowshares. Happily, these obstacles to our work have now diminished, and many university teachers are now interested in this developing field.

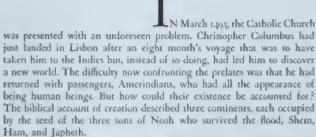
To the matter of plowshares and the marks they make I have paid special attention, watching farmers at work in the fields around me on my expeditions, and discussing with them what happens when a plow strikes a stone. In point of fact all that results is a dent, for either the stone flies out of the ground when it is struck, or the plow itself bounces off it if the stone doesn't move. The one device that farmers use capable of curting grooves in stones is the chain with which they drag a large stone out of the ground; but such grooves are long and curving and hear not the slightest resemblance to any script known to me. Given such facts as these, it is not surprising that the theorists who seemed to attribute the invention of writing to the plow have never explained how it is that plows in Pennsylvania usually write in Basque or Iberian Punic, whereas those of New England are apt to ascend the walls of stone buildings to write Celtic Ogam upside down on the ceiling.

Perhaps the most pressing reform needed in courses in archeology in America today is to introduce the study of epigraphy, by which is meant the art of reading ancient inscriptions engraved or otherwise imprinted on stone or other durable materials. The need for courses in epigraphy was brought home to me in no uncertain terms after the news media began to report some of these finds. Each week now brings me letters from many parts of the country enclosing photographs or drawings or rubbings of inscriptions people have found on their own properties or elsewhere, and requesting an explanation. Many of these inscriptions are the work of later Amerindians and are not writing in the strict sense; many others are more or less illiterate but genuine records cut by the modern colonists and explorers, often recording the death of a comrade on the trail or the visit of a survey party; a few are patent forgeries of which the finder becomes the innocent purveyor. But many others are genuine ancient records and hence part of the cultural heritage of

America.

It is saddening to see that many cliff-cut mementos of a visit by an ancient voyager have been overlaid by the recent scrawls of thoughtless vandals or shattered by the bullets fired at them by persons who think it incumbent to destroy otherwise enduring records cut into rock, high above the normally destructive processes of flood or fire. All too often an ancient inscription has survived two thousand years in the reverent custody of Amerindian tribes only to be ruined by the ignorant sharp-shooter of modern times. If we are to stop the destruction of these national archives we must make it our business to inform young people as to what these inscriptions represent. School teachers can do much in this regard, and I am sure they will respond to the appeal.

America's Oldest Archives



Columbus seems already to have been aware of the impending theological problem, for, in a letter dated February 15, 1493, written at the Canary Islands, he assures King Ferdinand that the people he found were no monsters, but on the contrary very well formed; neither were they negroes. And when he put ashore in Lisbon on March 6, his journal records "many people came to see the Indians, and it was a great marvel."

As the second and third and later voyages produced ever mounting evidence of large numbers of man-like creatures inhabiting the Americas, a cold wind of skepticism began to blow through the monasteries to ruffle the equanimity of those who so boldly preached the absolute truth of Genesis. For a time Rome disregarded the matter, as Pope Alexander VI, Rodrigo Borgia, was otherwise engaged, save only when he found time to draw a line of demarcation between the Spanish and Portuguese portions of the New World. But in 1512 a new pope, Giuliano della



Rovere, Julius II, summoned the Fifth Lateran Council and issued an official declaration certifying that American Indians are true descendants of Adam and Eve, and hence human beings. The failure of the Bible to account for them and their continent was made good by the inference that Amerindians are the descendants of Babylonians, expelled from the Old World on account of the sins of their ancestors.

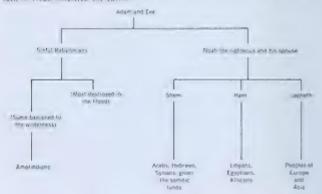
America B.C.

Backed by this authority, it was now safe for speculative churchmen to ponder the route from the Garden of Eden to America. After considering the possibilities that Noah's Ark might have added an American port of call to her scheduled sailing plan, or that angels might have transported people across the ocean, "holding them by the Haire of the Head, like to the Prophet Abacuc," a Spanish thinker, José de Acosta, dismissed both propositions in favor of transportation by shipwreck and accidental tempest of weather.

The inquiry was now taken up by others, and by the seventeenth century both Protestant and Catholic churchmen were agreed that Asia must have been the original homeland of the Ameriadian forefathers because "only the rude Tactars, above all nations on earth" resemble the inhabitants of America in respect to "their gross ignorance of letters, and of arts, their idolatory and above all, their ineivitity." Also for Pocahontas; there was no Fenimore Cooper on hand to defend the six nations, no Deerslayer yet to win hearts or minds for the dwellers in the wilderness.

One dissident, Cotton Mather in Boston, in the course of a long series

Pope Julius II's theory (1313) to account for the discovery of the Amerindians, no mention having been made of these people in the Genesis record of how the sons of Nosh inherited the earth.



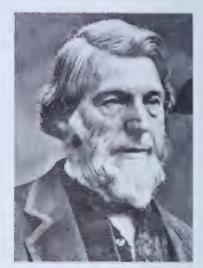
of extraordinary letters to the Royal Society of London, drew attention to the existence in Connecticut of a tribe of Indians which practiced circumcision, thereby showing, he thought, that the American Indians should be considered as the lost tribes of Israel. Voltaire, on the other hand, considered that the American Indians had arisen de novo in America, by whatever mechanism had similarly caused human beings to appear upon the face of the earth in other continents.

By 1811 such scientists as Humboldt recognized the similarities between some American tribes and those of the Mongol race, and postulated that the Americans are descended from a mingling of ancient Americans and later inwanderers from Asia. Later still most anthropologists came to agree that all American Indians are descended from ancestors that entered the Americas by way of the Bering Strait, and that no European came to America before Leif Eriksson or Columbus. In recent years one lone voice has protested such oversimplification, that of Harold Sterling Gladwin, In his various writings Gladwin has repeatedly drawn attention to cultural features and material objects, particularly pottery, that show that American tribes must have had relatively recent contacts with the Old World, especially with the Mediterranean and the Orient. The nature of the various art styles to which he drew attention is such as to point to direct voyages between the Old World and the Americas as late as classical times, about 2,000 years ago. Gladwin's views have until very recently been ruled anotherna, and excluded from the college curricula. Luckily this exclusionist attitude is now considerably ameliorated. His writings, once forbidden reading, have even become prescribed texts at places such as Harvard.

For generations the archeological world has been beset by the notion that only the navigational techniques introduced in Europe in the fifteenth century made it possible for Europeans to cross the Atlantic (though some grudging acquiescence is conceded to those who point to the evidence of the sagas, showing Viking crossings by way of Greenland). So, at the time when Gladwin issued Men out of Asia (1947), he too felt compelled to bring the Mediterranean influence to the Americas by way of an Asian and Indonesian land-hopping mute, the vectors being suppossedly the ships of the fleet of Menarchus, left stranded in Asia after the tleath of Alexander the Great. In recent years new discoveries in the Pacific caves have begun to lend much support to this facet of Gladwin's theories, but at the same time the newer evidence also shows very clearly that the Atlantic was by no means the great hartier that earlier thinkers had supposed.

What, it is reasonable to ask, is this newer evidence? In fact, it is not new in itself, for it has lain intact for two thousand years; all that is new







Pioneer urcheologists who contributed to the solution of the mystery of European actilements in northeastern United States prior to the medieval voyages. Above left, Harold Sterling Gladwin (1889—1), who demonstrated Medierranean influence in the classical period. Upper right, Richard Roll Brash (1817–1876), the leading Irish Ogam scholar of his day. Left, William B. Goodwin (1868–1950), who first protected Mystery Hill from further destruction, and first perceived Celtic features in its archeology. Harold B. Alexander, Moderoles D. Francos.

is our ability to read the inscriptions concerned. For indeed, they are written and in some sense documents, carefully engraved on the bedrock of America, on temple lintels, and on the gravestones of kings and chiefs. They speak to us of a long-forgotten age of exploration and colonization, the subject of this book.

When American archeologists first began to send me inscriptions for decipherment and translation I was astonished to learn that such documents exist here. All my earlier work had been on ancient tablets and cave inscriptions of the Old World, records of the Sea Peoples of the Bronze Age and early Iron Age some 3,000–4,000 years ago. What I now began to receive from unimpeachable sources in North America were essentially the same types of document, engraved in stone, and either excavated from some archeological site, recorded from cliff faces, or photographed on massive rocks discovered by the early colonists. I had never seen such materials mentioned or illustrated in books on the archeology of the Americas and indeed was oblivious of their existence.

"How is it," I asked my friend and colleague Professor George Carter of Texas, "that you are sending me all these materials? Has no one studied them before?"

His answer was, "For twenty-five years I have been knocking on the study doors of professors of Greek and Latin, each time to be told that the objects I had in my hand look like writing, but that it is not Greek or Latin nor any script known to my consultant. So I emerged no wiser than before."

The very manner in which George Carter and I were brought together is in itself instructive, for it illustrates both the difficulties now besetting communication between men working in different disciplines and the strengths of those more liberal institutions of learning that encourage their faculty to cross the lines that divide the disciplines. Carter trained as an archeologist at the University of California at Berkeley, but he has chosen to devote much of his life to the study of the geographical distribution of man and his domesticated plants and animals. Through his researches at Johns Hopkins and later at Texas A, and M, his work became well known to biologists at Harvard, especially to botanists working on the evolution and distribution of plants cultivated by man.

I for my part, though a marine biologist, have spent much of my life studying the ancient voyages of peoples who left inscriptions on remote islands which, of course, could only have been approached by sea. As a marine biologist I felt obliged to examine this evidence, for it would have a bearing on how the dispersal of man, plants, and animals might be influenced by ocean currents and winds. So the decipherment of ancient

inscriptions, the art of epigraphy, became my second specialty. It was through my fellow biologists at Harvard that Carter and I were introduced to each other's work. Hearned that he had amassed a fine collection of American inscriptions in the hope that their eventual decipherment might explain or illuminate his own researches, and he for his part now found a man who claimed to recognize the languages on his tablets. We soon found that the emerging information is consistent with our other, independent investigations, and so the seal was set on a collaboration that proved most rewarding.

When word began to appear in linguistic and archeological periodicals of this joint effort, other archeologists and some linguists contacted us. A flow of information now began that soon swelled to proportions far beyond anything either George Carter or I had dreamed. The Epigraphic Society was established, and we began to publish our findings, as well as those of others, in a form readily available to other interested people, both professional and amateur. So began the busiest and most productive period in my life, an existing pourous through space and time, bringing new friendships in a score of countries.

From the information we gleaned from the first American tablets to be deciphered we gained important hints as to where more inscriptions might be expected. So I descrited my study table and the world of dictionaries for a while to spend a wonderful summer crisscrossing the hills and vallets of the New England countryside, rejoicing whenever a terrace or ridge top yielded yet another inscribed stone. My field companions and I became deeply aware of the presence all around us of traces of a vanished civilization that had once floorished there.

On these New England excursions I was most often accompanied by John Williams, a young schoolteacher from Connecticut who soon made himself expert in detecting the presence of inscribed rocks beneath the soil and later carried out many exploratory trips on his own. Between the two of us we covered some eleven thousand miles on the roads, and hundreds of miles on foot, clambering up hillsides, or more often, pushing through the woodlands that once more occupy much of the back country. We were often joined by my wife Rene, who occasionally made discoveries of her own. Another frequent companion was Peter J. Garfall, joined later by Joseph D. Germano who, whenever they could spare the time, would bring their cameras to record the finds.

When the suggestion was made at one stage in one of the newspapers that we might be forging the inscriptions it became increasingly necessary to have cameras as well as witnesses on hand to record the thick coat of lichens covering the inscriptions before they were brushed clean for making a plaster cast. Other companions from time to time were our



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Examples of Iberian inscriptions from North America (left), and from Europe fright). The American inscription, engraved on a stone tablet, was found in 1838 at a depth of 60 feet in a large burial mound at Grave Creek, West Virginia, together with a skeleton and copper arm rings. It was at once recognized by Professor Rufu of Copenhagen as being liberian, though that script had not at that time been deciphered. Recent studies show that the language of the tablet is Punic (Phoenician), written in the form of alphabet used in Spain during the first millennium a.c. It may be translated as fullows (the writing reading from right to left):

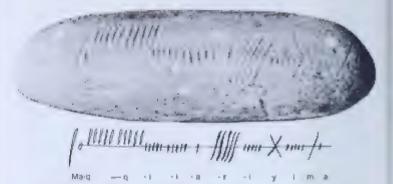
- (1) The mound raised-on-high for Tasach
- (a) This tile
- (3) (His) queen caused-to-be-made

The alphabet of the tablet was deciphered by Spanish scholars, and published by the English epigrapher D. Diringer in 1968. The language is basic Sensitic, and all words occur in standard literary Sensitic dictionaries, such as that of Professor Webr. The decipherment of the tablet is explained by Fell in Occasional Publications, vol. 3, issued by the Epigraphic Society.

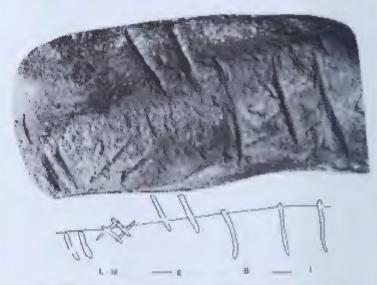
The European inscription, with which scholars such as Rain and Schooleraft compared the Grave Creek inscription, and shown to the right of the Grave Creek inscription, and shown to the right of the Grave Creek lablet, is written in the liberian alphabet and in the Punic language, but alternate lines read from right to left, and then from left to right (this is called bountrophedon, meaning "as a plowman walks"). The translation, by Fell, is as follows:

- (a) Various ways of making a prediction
- (a) The planets reveal indications of . . . (letters missing)
- (3) He who understands how, may himself obtain information about hidden truths
- (4) When the radiant gleam is seen of the myriads of the heavenly host following their courses on high
- (5) The directions of their wanderings are the signs of omens
- (6) The crescent moon, appearing below the planet Mars, is a favorable sign
- (7) When Venus makes a transit through the constellation of the Ram
- (8) She bestows upon mankind peace and mild government

The tablet, evidently only the first part of an astrological text, is deciphered in detail in the Oceanional Publications, vol. 3, of the Epigraphic Society.



Ancient phallic stone at Ballintaggart, County Kerry, Ireland, apparently reengraved in Christian times with the name of a deceased person. The first part of the inscription is a rendering of a Celtic name also known from a Cornish inscription, Maqquiari or Magari. The last part cannot at present be interpreted. Immes P. Whittell II



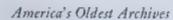
Iberian Ogam inscribed stone from Vermont. The American Ogam inscriptions use the Iberian form of Ogam in which vowels are amilted. These are much older than the Irish Ogam and date from the late Bronze Age, as is shown by Panic letters associated with them of dated types. The inscription her reads "Stone of Beli," but when complete it probably read "Stone of Beliane." Joseph D. Germono

archeologist friends and local residents who sometimes could lead us directly to a site known to them. They were long days, from dawn till near midnight, but we managed to bring back to Boston a fine series of aluminum-foil impressions from which casts could be prepared on days when the weather forbade field work.

The alphabets and languages found on American inscriptions are fully discussed later in this book, but the representative examples on pages 21-22 show how the American colonists or visitors wrote in the first millennium B.C. Note the similarity to corresponding examples from Europe.

While John Williams and I roamed the New England back country for Celtic inscriptions, another colleague was making notable finds in the midwest and southwest. This was Cluria Farley, an intrepid explorer of the cliffs and caves that border the banks of the Arkansas and Cimarron Rivers and their tributaries. Armed with camera, snakebite antivenom, rubber latex (for making impressions), and a ladder, Gloria systematically assembled a remarkable series of records of visits and settlements by European voyagers who had ascended the Mississippi, then turned west to follow the Arkansas River, eventually to reach the Cimarron along the border between Oklahoma and Colorado. Her discoveries showed that some Celts had followed this southern route and that Libyans and Punicspeaking Iberians, and even one Basque king, had ventured into the heartland of the continent centuries before Christ, Gloria Farley will be remembered for these fine contributions to our national archives, a bright example of grit and determination in the face of discouragement on the part of those who might have helped her.

On account of the skepticism, and even opposition to our work, that we experienced at first from some professional archeologists, nearly all of the inscriptions we first examined were ones that we discovered ourselves, John Williams and Gloria Farley being the leading explorers. Later, when our work became better understood, we began to receive valuable help from museum curators and some universities or other institutions where mysterious inscribed stones or tablets had been deposited by finders long since. We received no financial support from any scientific fund, but through the generosity and faith of Ruth K. Hanner, the Epigraphic Society has been able to establish its own modest fund and this, supplemented by our family budgets, has financed our travel expenses and the cost of latex and other materials needed for making copies of inscriptions cut in rock. Those who have participated in the exploration include Malcolm Pearson, a gifted photographer who has recorded inscriptions for many years, and who originally led William Goodwin to the ruins at Mystery Hill; James Whittall, architect-archeologist, a Harvard graduate and authority on the megalithic structures of Portugal, Spain, and New









England; Robert Stone, curator and present owner of the Mystery Hillsite in New Hampshire, which he has protected and opened to the public,
and who first demonstrated the existence of an ancient astronomical
observatory among the ruins, in an American setting; Elizabeth Sincerbeaux of Vermont, who perceived the antiquity of the supposed colonial
"root cellars" and encouraged a young amateur astronomer, Byron Dix, to
investigate what he later discovered to be calendar sites in that state.
These and others to be named in later pages were the colleagues who
now became our closest collaborators, and who like us had to endure
much opposition. But the work was its own reward, and all of us who
took part in the research agree that we lived exciting days and loved
every minute of them.

Yet these treasures are endangered!

Christopher McIntosh, an English investigator, has given an account of the ever-increasing threat of destruction of ancient sites as a result of modern highway construction and like developments. He called his 1971 report "The Race to Save Britain's Past," and it often seemed to us in Vermont that we too are racing against time, with the added threat of vandalism. As the months went by I perceived a change in the attitude of my field collaborators who seemed to become imbued with a new zest, determined to save these relies, come what may.

Coordination of different disciplines is a feature of successful fieldwork. Above left, Byren Dix uses an equatorial to determine sunrise and sunset azimuths for each day of the year for each of the sites. His demonstration that the temples have well-defined astronomical axes, matching those of the solstice and equinous stones, was a major part of the proof that these stone buildings were the work of European visitors and their descendants. John Williams, above right, with Fell taking measurements, and, below, students of Castleton College take part in the field work. Peter J. Garfoll, Hurry S. Jaffe, Joseph D. Germano

How Irish Ogam Was Deciphered

URING the past three thousand years the shores of America were visited by mariners, sometimes by colonists, from several different civilizations that once flourished on the other side of the Atlantic. This means, of course, that the inscriptions they left behind are engraved in several languages, and sometimes inscriptions of different periods occur on the same rock or cliff face. If I were to report the decipherments in the order in which they were carried out the result could not be other than confusing. Therefore I have tried to bring out the main profiles of our work by concentrating on what appears to be the central theme, namely the Celtic decipherments, even though these were the last to be completed. The Celts have been a lifelong interest for me, at least ever since my college days. When Celtic inscriptions stared back at me from American bedrock it seemed like the end of a long, tortuous trail that started so many years ago when I was a student at the University of Edinburgh, in Scotland. If I have exaggerated the importance of the Celtie role in history or in the colonization of America in ancient times it is perhaps because I was better equipped to recognize faint trails if their scent was Celtic. Others, perhaps, may be more successful in smelling out other ancient voyagers, guided by signs that I never learned to notice. So without further excuses I return to Irish themes and the story of Charles Vallancey.

The problem confronting Vallancey was different in nature from that we encountered in American inscriptions. Whereas he did not have to convince anyone that Celus had once lived in Ireland, this very advantage also did him a disservice. For the ancient Irish scribes had no doubts that their Celtic alphabet could be understood in a Celtic land, and so they

never once felt obliged to compose bilingual inscriptions in dual alphabets. So the methods we used in North America, as outlined in chapter 5, were not available to Vallancey. Old Irish monks, however, had composed books about Ogam, and it was through one of these that he learned of the nature of this ancient script.

In his recent lecture series and book Civilisation Lord Kenneth Clark has depicted the monks of Ireland in the dark ages as the repository of learning while Europe lay shattered by the barbarian invaders. In their stone cells and remote islet hermitages these devoted servants of God somehow contrived to keep the oil burning in the few fragile lamps that survived the collapse of the western Roman Empire. For four centuries they alone preserved the learning of the ancients. Later, as petty kingdoms were replaced by more stable institutions of government, the monks emerged to establish more splendid houses of the Church, until by the ninth century and the onset of the middle ages a steady stream of manuscripts was generated to fill the libraries of those bishops who cared for learning or had the wealth to commission fair copies of ancient works for their own delight. Not all of the manuscripts can be classified as works of art, but some of the more commonplace in execution contain information that is priceless. One such is the volume known to us as the Book of Ballymote.

This celebrated book is thought to have been assembled about eight hundred years ago from a collection of miscellaneous manuscripts. The last manuscript included in the book is known as the Ogam Tract, because it deals with about seventy varieties of ancient Celtic script called collectively by the name Ogam, meaning "grooved writing," It is thought that this name may be derived from an ancient Greek word ogme, meaning "groove," though some Celtic tradition attributes the script to a god called Ogmios.

The principle of Ogam writing, as set out in the Ogam Tract, is simple enough. It is, in fact, an alphabet, comprising fifteen consonants and five vowels, together with a few other signs representing double letters such as the sounding, and diphthongs. The letters are constructed from single parallel strokes placed in sets of one to five, in positions above, across, or below a guide line. A portion of the first page of the Ogam Tract is illustrated on page 28 to let you see what the script looks like when written on a vellum manuscript. Further on I will explain it in more detail, but first I want to consider another topic by posing a question which, perhaps, may already have occurred to you.

The question is this: "If Lhyd had taken the trouble to consult the Ogam Tract in 1707 when he first discovered the Trabeg inscription, would be not have been able to decipher his find?"

And the answer, of course, is Yes indeed, provided that he knew of the

וביוות לוינוו המו וביו שרושותו Strangentunites

existence of the Book of Bullymote and where it was kept, and provided he could also read Gaelic (for that is the language of the Tract). How-

ever, Lhyd seems to have known none of these things.

How then did it happen that Colonel Charles Vallancey was able to do what Lhyd could not, when Lhyd (as his name shows) was a Celt, whereas Vallancey was an Englishman? Here the answer is twofold. For one thing Vallancey, as we learn from contemporary records, was one of those English settlers in Ireland who fell entirely under the Celtic spell. He became more Irish than the Irish (there have been many such); and secondly, he was an archeologist in the strictest and original sense of the word. Now this may surprise you, but in the eighteenth century archeology had a markedly different connotation from what it commonly carries today, especially in America.

According to the great Oxford English Dictionary, the word was originally spelled archaeology, and it made its debut in the English language in the year 1607, when the meaning it was to earry for the next two centuries was given as "Ancient history generally." As late as 1879 the word was still defined (in the Encyclopedic Dictionary) as "The science which treats of antiquity, which it investigates by studying oral traditions, monuments of all kinds, and written manuscripts." Earlier, the journal Archaeologia was employing the word in the following manner: "The contents of the Archaiology of Wales are derived from old manuscripts"

(OED vol. A, page 431).

These passages give us the clue to Vallancey's success. He did indeed pursue the study of the archeology of Ireland by tracking down and teaching himself to read the medieval Romanesque* script of the monks and by diligently making use of Gaelic dictionaries to acquaint himself with the words he found in these ancient documents. There was no other way in which the subject could be learned; no college or university courses were offered in Celtic, and certainly none at all in any language employing the Ogam script.

Modern archeology, relying mainly on discoveries made by excavating the ruins of former human habitations and other traces left by ancient peoples, grew out of the groundwork of these early students of ancient

A portion of the first page of the Ogam Tract in the Book of Ballymote showing a number of different alphabets known to the medieval author of the Tract, even though in Ireland these varieties are not at present known from inscriptions on stone (lapidary inscriptions). The variety shown in the second line, called "Hinge Ogam," is one that occurs in North America, the vowels however being omitted from the American version.

^{*} The same serif gothic letters still used in modern Irish Gaelic.

30

manuscripts. Before ever the first Celtic towns and forts were excavated in Britain, archeologists had already made an exhaustive study of the documentation left by the Celts and their Greek and Roman visitors. Sothey already were in possession of the means of reading ancient Celtic inscriptions in both Latin and Ogam writing, and they judged the meaning of their finds by the inscriptions they uncovered or, more precisely, by the decipherments made by epigraphers to whom they sent copies of these inscriptions. Only when this framework had been established did archeologists dare to make excavations into progressively older sites, where no writing could be discovered. With extreme caution they gradually extended their work back through the older levels and into the Stone Age. Even today most excavations in Britain are concerned with periods for which a writing system is known and understood, and the most spectacular sites are generally those of the classical age, when Romans and Celts. lived together in considerable opulence, as their buried cities attest. As most inscriptions are in Latin, that is naturally the language with which the British archeologist must acquaint himself. For the older periods, before the Romans came, the written monuments, some four hundred in number, use the Ogam script. Transitional phases are represented by monuments engraved in both Ogam and Latin texts.

This, then, is the background against which we have to view Vallancey's researches, and it explains in large measure why he was successful and why his successors went on to much greater things.

Here now is the story of Vallancey's deductions, as pieced together from the contemporary archeological journals which reported his work.

True to the archeological principles of his era, he began his investigations by examining and translating such ancient Irish manuscripts as he was able to locate in the libraries of Ireland and others that he obtained by purchase. One of the manuscripts he obtained was a copy of an early Irish poem entitled The Battle of Gabhra, dealing with an event said to have occurred in the year 283 a.o. and forming part of the epic of Celtic legends known as the Ossianic cycle. The particular passage in the poem that aroused Vallancey's antiquarian curiosity was one that is lacking from most of the copies of the work. According to O'Kearney, who edited the work for the Ossianic Society, the critical section is to be translated as follows:

> The ferocious warrior Conan Was not at Gabbra in the mighty strife; For on Beltame [i.e., May first] of the previous year At an assembly convened to worship the sun. The bold hero was slain treacherously By the Fenians of Fionn.

On the dark mountain of Callan His grave was made on the northwest slape; Sadly plaintive was his dirge, And his name in Ogam is on a dressed stone.

The lines here italicized were those that caught Vallancey's attention, for he was acquainted with a mountain called Sliabh Calainn* in County Clare, and he learned that on the mountain was an ancient Celtic structure called a cromlech (a table-like giant stone monument of which American examples are noted in Chapter 8). This cromlech, known to the local villagers by the Early Irish name of Altair-na-Greine (altar-of-the-sun), he suspected might be the grave of the warrior Conan. The critical question now became: Does this monument carry an Ogam inscription, and if so, is the inscription a funeral dedication to a person called Conan?

It so happened that Colonel Vallancey knew of a young man of antiquarian tastes who lived in the neighborhood of the mountain, endowed by his parents with the enchanting name Theophilus O'Flannagan. He wrote to Theophilus in 1784 asking him if he would undertake a search for the Altoir-na-Greine or any other hewn stone that might fit the description given in the poem, and ascertain if there were Ogam characters inscribed upon it.

It is now known that Theophilus O'Flannagan had in fact already visited the site in 1780 (as he afterwards was to record). He omitted to mention his earlier visit, however, in his reply to Vallancey, and his letter dated April 20, 1784, reads as follows:

I went in search of the monument of antiquity so particularly pointed out by you in company with a young man who had been my school-fellow. We proceeded to Mountain Callan (or Altoir-na-Greine) about eight miles westward of the town of Ennis, and soon found a large altar, about twelve feet by four, extending from east to west; it lies on the south side of the mountain, about half a mile distant from the highroad leading from Ennis to Ibrican. . . . After searching for the inscription I was much disappointed, no characters whatever appearing thereon, wherefore I returned to the peasant's cottage . . . and was informed by the peasant that he had observed another monument on the other side of the mountain, about a mile northwest of the altar, which resembled a tombstone, and that it had strokes engraved on it very unlike letters.

Fully confident that this must be the monument we sought for, he guided us to the spot; and there we found a large bewn stone of the same kind as those in the altar above mentioned; the length of the stone is between seven

^{*} Sliabi Calaina (pronounced Sleeav Calin) means Mountain of the Cromlech.

and eight feet, and from three to four in breadth, placed upon a kind of tumulus [burial mound], with an inscription of which the following is a facsimile representation

Imagine the trepidation with which Vallancey awaited the reply, and his excitement upon receiving it! He wasted no time in passing on to the Society of Antiquaries word of the discovery, and his letter announcing it, dated June 24, 1784, was published in Volume 7 of Archaeologia, the Society's journal.

O'Flannagan's facsimile of the inscription was inaccurate, and therefore Vallancey's first decipherment was similarly defective. However, the most important fact emerging from the investigation was that the predicted name Conan was identified on the stone. O'Flannagan's version, transliterated from the Old Gaelic into Roman letters, is:

FAN LUDAF ICA CONAN COLGAC COS OBMDA

From this cryptic sequence Vallancey and O'Flannagan satisfied themselves that the tumulus had contained the body of a chieftain named Conan Colgac.

Unfortunately for Vallancey and O'Flannagan the discovery was greeted with general incredulity. A Dr. O'Connor reasoned that the monument could not possibly be antique, because punctuation points occurred in the Ogam text (a completely fallacious argument, as events were to prove). Ledwich, an Irish historian, ridiculed the whole alleged find on the grounds that it is not possible for any Celtic monument to have withstood 1,500 years of exposure in a wild, unsheltered situation. A Dr. O'Donovan claimed that the whole inscription was a forgery perpetrated by a certain John Lloyd, and that the verses of The Battle of Gabhra were also the forgery of O'Flannagan himself, to suit the wording on the stone. Later O'Flannagan was also charged with having forged the inscription too.

One of several readings of the Callin Mountain Ogam inscription inferred by O'Flannagan and Vallancey, Although the ancient Celtic could not be translated, they inferred that the monument is a memorial to a chief called Conan Colgae. Later study disclosed that the name Conan should be read as Cosaf. Although this decipherment contained errors it is a landmark in epigraphy, for it was the first ancient unknown script to be deciphered.

All these charges were eventually shown to be baseless, for as others joined in the search for Ogam monuments, a torrent of reports on new finds began to pour in from many quarters. Some of the new discoveries proved to be in a much better state of preservation, and thus the art of deciphering the Ogam inscriptions became more refined, though many of the more eroded examples have baffled translation. With the improvement in understanding how the Ogam is to be read there came a curious aftermath to Vallancey's pioneer effort. It now appeared that the letters that had been read as CONAN are in reality not that hero's name but COSAF! A possible explanation is that the unknown poet who so precisely indicated the place of burial of his Conan may have himself misread the name on the monument, and composed his lines to fit what he thought he read.

How Irish Ogam Was Deciphered

Nothing, however, can take from Vallancey the honor of having discovered how the hitherto mysterious notched stones of the Celtic lands are to be read, and his pioneer work eventually resulted in nearly 400 such Ogam monuments coming to light in various parts of the British Isles.

But Vallancey's researches have a wider implication. They showed that the key to deciphering an unknown script in an unknown language lies in researching all possible avenues of information with a view to discovering a bilingual example, where the unknown script occurs alongside one which is already known. This key Vallancey recognized in the Ogam Tract of the Book of Ballymote. What had been supposed to be a monkish code system was found in reality to be a key to the ancient inscriptions of the Irish, indeed of the whole Gaelic-speaking section of the Celtic peoples, in which the Ogam symbols are placed side by side with the Romanesque (or Gothic) alphabet used by the Christian monks.

From this point on, all would-be decipherers knew that they must always look for an inscription in which a known writing system is found in juxtaposition with a parallel version in the unknown system. The next great decipherment was to be Champollion's pioneer solutions of the Egyptian hieroglyphs occurring side by side with a Greek text on a Ptolemaic document now known as the Rosetta Stone, Champollion's work illustrates a special trick that decipherers have found valuable when searching for clues as to how a decipherment is to begin.

The Rosetta Stone is actually a bilingual Egyptian-Greek copy of an edict issued by the General Council of the Egyptian Priesthood assembled in Memphis to celebrate the coronation of the Pharaoh Ptolemy V. The Council met in 196 B.C., and it was not the coronation itself they celebrated, but the ninth anniversary of it. The stone was found by Napoleon's army in Egypt in July 1799. Napoleon himself was fascinated by the find, and ordered copies of the inscription to be circulated to the learned societies of Europe in the hope that someone could decipher the Egyptian writing with the aid of what appeared to be a parallel Greek text. His hopes were realized by the French-scholar Jean François Champollion (1790–1832).

The method used by Champollion was to identify certain proper names (of the Pharaoh Ptolemy, for example) in the Greek text, and then to locate what appeared to be the corresponding sections of the Egyptian text, distinguished by a special mark used for royal names called the cartouche. Then by comparing the various names he was able to isolate hieroglyphs that evidently stand for the same sound in different names. As he identified each sound symbol he was gradually able to extend his reading to other words by inserting the sounds he had deduced for the symbols in those words. He then made the startling discovery that these words were the same, or nearly the same, as certain words in the Coptic language still used in the native Christian church of Egypt. So he was able to prove that the Coptic tongue is descended from Ancient Egyptian, and at the same time to employ Coptic as his guide to reconstituting the Ancient Egyptian tongue.

A variation of Champollion's method consists in finding ancient coins struck with inscriptions in two languages, one of which is known. This method has been used with great success in reconstituting the lost languages of the Far East, for during and after Alexander the Great's campaigns into Asia numerous coins were struck by Greek rulers who had established themselves in various states of India and the lands between Greece and India. In this way the ancient alphabets of India were recovered along with many other, lesser-known Asian tongues.

Yet another variant is possible in some ancient cemeteries where the names and biographical data on the deceased person may be given in the local language and in a widely spoken language such as Latin or Greek. I used this means of ingress into the hitherto unsolved language of Libya, and by following Champollion's rule of beginning with the proper names and then substituting the inferred sounds into other words, I learned to my surprise that the unknown Libyan language is in fact almost the same as the Ancient Egyptian language, the chief difference being that the Libyans used an alphabet derived from that of Carthage whereas the Egyptians used the very complicated and cumbrous system of hieroglyphs, most of which have a sound value made up of several letters. Another peculiarity was that Libyan proved to make much greater use of words derived from Greek and the Anatolian tongues.

In this book several different languages, each using a special writing system, are reported from various American inscriptions. One of them happens to be Libyan and another is the old Celtic language called Goidelic, written in a special variety of Ogam script that originated in Spain and Portugal. Yet another is the Tartessian language of the city of Tarshish in southwest Spain; and there are others. Every one of these writing systems has been deciphered by the methods explained in this chapter. In some cases (Iberian, for example) the alphabet has been deciphered by European colleagues (from bilingual texts including proper names or from coins) while the language has sometimes been identified or deciphered by me, using related known languages as the guide. In other cases (Punic, for example) the entire decipherment has been carried out on Mediterranean inscriptions by European researchers, and all that is then required for an American example is to make use of the dictionary supplied by the European researchers. A point I want to stress is that the methods used in deciphering American inscriptions are identical to those used elsewhere.

In the previous paragraph I have stressed the difference between an alphabet and a language because, strangely enough, nearly everyone seems to confuse them. I think the cause of the confusion is that in some cases we use the same word to describe both the alphabet and the language of an inscription, while in other cases two different words are used. Let me try to clarify the matter here. An alphabet, of course, is a set of letters, each having a special sound value. A language, on the other hand, is a means of communication used by a particular people or group of speakers. But if an alphabet is used by only one particular language we often describe both the alphabet and the language by the same word; an example is Libyan, for the Libyan language uses the Libyan script. It is quite possible, of course, for a language to use the alphabet of another language. For example, the Pali language of India has no special Pali alphabet at all; it can be written correctly in the Devanagari alphabet of the Sanskrit language or in the Roman alphabet that we use, or in any of several other Eastern alphabets. Another example is the dialect of Punic (the Semitic tongue of Carthage) used in Spain; some ancient scribes wrote this Iberian Punic in special Iberian letters probably derived from the Basque people while others wrote it in the old alphabet of the Greeks of Italy. The Etruscans wrote Etruscan in a mirror-image version of the alphabet of the Greeks of Italy. English, French, and Samoan are three different languages, yet all three use the Roman alphabet.

At this distance in time from Vallancey and O'Flannagan it is easy enough for us, with the aid of aftersight, to see that these investigators used the appropriate methods and that they achieved a reasonably close approximation to the truth. It is equally easy for us to conclude that any similar investigation in America—or anywhere else for that matter—should follow along lines similar to those explored by Vallancey and

36 America B.C.

Champollion. So it would be natural enough to pass straight from the material reviewed in this chapter to the corresponding materials from the New World.

But that would be to overlook the subsequent turn of events in Ireland and in Britain as a whole, for the path of Vallancey's successors was by no means smooth. In fact, little further progress was achieved by Vallancey himself, and in the latter part of his life he was content to discover and record Ogam inscriptions without going beyond the point of claiming that they were the work of ancient Irish Celts. Much opposition existed even to that simple claim, and as for the inferred readings of the Ogam, these continued to provoke skepticism and opposition. The severest and most obtuse opposition came from Vallancey's Irish colleagues. However, as the saying has it, the darkest hour is just before the dawn. And so events were soon to prove.

4

The Celtic Revival

HLE controversy still raged over the validity of Vallancey's during equation of the supposed secret writing of the medieval monks with the hitherto unexplained grooved and notched stones of Ireland, the learned men of England viewed with some surprise the storm in the Irish literary circles. What significance for Britain, not to mention Europe, could there be in this crude thing called Ogam? Everyone knew that the Irish had never been any other than ignorant peasants, and as for the Scots, Samuel Johnson had given expression to the Englishman's disdain for those kilted savages. The Welsh in their secluded mountains had all but ceased their cattle rustling and, adopting the nonconformist faith of the Methodist preachers, had finally learned their lesson and ceased to trouble the serious world of the English country gentleman. English disdain for Celtic peasantry was sufficiently expressed by the Irish themselves, and when O'Connor, Ledwich, and O'Donovan launched their literary attacks on Vallancey and O'Flannagan, the English reaction was to leave the Irish to themselves.

"The Irish are a fair people," Johnson had written to the Bishop of Killaloe, "they never speak well of themselves." And, as if prescient of the scorn in store for Vallancey, Johnson had already written to the Scottish Ossianic translator, James Macpherson, in 1775: "In lapidary inscriptions a man is not upon oath."

For the grieving Irish scholars and their few English defenders never had the prospect seemed more bleak. Soon famine was to add to the miseries of the peasants. So the era of the young Victoria came to Britain.

Then suddenly and unexpectedly the tide turned. Two scholars of impeccable learning and duly certificated by the leading universities now turned up new evidence. One was the Right Reverend Dr. Graves, Bishop of Limerick and hence a pillar of the Anglo-Irish Church, the other Sir Samuel Fergusson, distinguished lawyer and Queen's Counsel. The Bishop began to amass a collection of paper molds of the Irish inscriptions on stone, and soon was able to demonstrate that a sequence of Ogam letters spelling M-A-Q-Q-I is nearly always to be found in the middle part of an inscription, preceded and followed by two other sequences that could sometimes be matched with known personal names of the ancient Irish. Thus the funerary formula was demonstrated, a deceased man being designated by his own name, then the word maqq (meaning "son of," modern mac, the final "i" being the sign of the old Celtic possessive case) following his father's personal name. This finding made a deep impression on English scholars, for it now appeared that ancient Irish used case inflections. The parallel to Latin was much too striking and too attractive to dismiss lightly.

"Could it be," the literati now began to ask themselves, "that this old Irish language is actually related to Latin?" Now, in the days we are speaking of, a knowledge of the Latin language was widespread among all the educated people of the world. It was thought of as the most sophisticated and precise means of communication ever contrived by man, and the notion that ancient Irish might be connected in some way with the speech of the ancient Romans proved to be a much more effective advocate for Vallancey than anything else that occurred up to that time.

To this intriguing notion Dr. Samuel Fergusson, later Sir Samuel, now added new discoveries, namely that Ogam inscriptions found on the lintels of peculiar cellar-like buildings (called raths in Gaelic) antedate the buildings themselves, for parts of the inscriptions are concealed within the mass of the masonry. As certain raths are mentioned in Irish manuscripts as being built in pagan times, the antiquity of the Ogam on their lintels must have been even greater.

The final and most telling blow now came, of all places, from England itself. Bilingual lapidary inscriptions were discovered on which the name of the dead person appeared both in Ogam script and in Latin letters! The timing could not have been better, for under the influence of Prince Albert and the Queen, England was now turning to the nostalgic contemplation of Gothic art and printing, Tennyson was soon to sing the "Idylls of the King" to put all England under the spell of the Arthurian romances of Cornwall, Wales, and Brittany. Now, to pile Pelion on Ossa, came the incontrovertible evidence of the stone monuments that the ancient Celtic language had been contemporary with the Roman occupation of Britain.

Soon from the monasteries of Ireland and the dusty shelves of Trinity College, Dublin, came forth a stream of hitherto almost unknown manuscripts and books, decorated in a lavish and most beautiful Romanesque variant of the so-called Gothic lettering, inlaid with jewels, bound in gold, the most beautiful books the world had ever seen—and all of them composed in either the Old Irish or the Latin tongue or both. Scholars and dilettanti came from far-away places to gaze upon the discoveries, and linguists now took up the study of ancient Celtic writings.

Stunned by the turn of events, the erstwhile critics recanted or slunk away never to be heard from again, and Ireland emerged into the world of European scholarship as the savior of civilization during the darkest age of the barbarian invasions. A century of unremitting scholarly research ensued. Celtic students in all the Celtic lands took renewed heart as the historic universities of England, Wales, and Scotland now took steps to follow Ireland's lead, appointing learned men to fill the newly created chairs of Celtic studies.

While this extraordinary turn of events swept all before it in Britain, far away in New England a thrill of pride passed through the various communities of exiled Celts whose parents had fled the Highland clearances, or who had themselves crossed the waters to escape the horrors of the Irish potato famine.

How little these exiles knew of what lay all around them in those verdant New England valleys, so like the Ireland they had left behind. Far more like Ireland than they could dream, for how were they to know that the mysterious stone "root cellars" they had found on their properties were essentially replicas of the same stone structures that Sir Samuel Fergusson had shown to be ancient Celtic monuments from a forgotten age? The art of recognizing and reading Ogam was confined to a few scholars in Britain, so how were these New England Scotsmen and Irishmen to know that the peculiar lines of cross-hatched groves they sometimes would notice on the lintels of their "root cellars" had anything to do with the discoveries now being reported from Scotland, Ireland, and England?

Another century was to roll by before their grandchildren were first to learn that ancient Celts had once crossed the Atlantic, to found far-flung settlements at the edge of the world in a land that lay behind the Irish sunset. Celtic New England remained unrecognized and unsung. Oblivious of the historic importance of the strange stone buildings that dotted their properties, some of the Scots and Irish settlers incorporated them into the cellars of the farmhouses they were constructing in the new land. Many, how many we shall never know, of the "root cellars" were torn apart to yield stones for the dry-stone walls they constructed around their fields on the model of similar walls called dikes in Scotland and Ireland. Yet others were wrecked to yield masonry for the bridges and dams required by the developing communities of New Hampshire, Maine, and Vermont. A fearful havoc was wrought upon countless ancient Celtic

structures and, sad to say, much of the damage was executed by men who would never have laid hand to the work had they but realized the sacrilege. By way of comfort, it should be added that there is no doubt that vast havoc was also wrought in Ireland and Scotland during the long centuries of the middle ages. This is sufficiently attested by the fact that Ogam-inscribed stones are often to be seen in Ireland, built into the walls of churches and farmhouses, as well as in the dry-stone walls around the fields that are as characteristic of Ireland and Scotland and Wales as they are in New England.

But before tracing the ancient Celts across the Atlantic there are some other matters to discuss in the European context, as Britain during the late Victorian period reversed her former attitudes to Celtic studies and assumed the role of patron of scholarship (always provided such scholarship did not lead to any reprehensible independence movements). A consequence of the newly favorable attitudes to research into the Celtic languages was that leading linguists began the task of reconstructing the ancient tongue of the Gauls and of their Gaelic cousins, the Goidels. Every inscription was now subjected to close scrutiny to discover what evidence it might yield as to the actual vocabulary used by the ancient Celts, and also as to how the form of a word might change according to the role it plays in a sentence. From the latter information scholars expected to be in a position to determine whether the ancient language of the Celts followed rules similar to those of Latin or Greek.

One of the leading authorities on Celtic archeology who now appeared on the scene was Sir John Rhys, professor of Celtic Languages at Oxford University. Like all archeologists of his day his training was that of a linguist, and he had pursued his language studies at the Sorbonne, Heidelberg, and Göttingen. His Welsh origin particularly fitted him for the mantle he was soon to assume, for he had been steeped in the literature and traditions of Wales since his boyhood days in Cardigan and had attended school in Bangor, Wales, before going on to Jesus College, Oxford. His career was such as one no longer finds among men of science: Lecturer in Archaeology at the University of Edinburgh, 1889; President of the Anthropological Section of the British Association for the Advancement of Science, 1900; Fellow of the British Academy; Member of the Commission on Welsh Universities; Member of the Commission for a National University of Ireland; Chairman of the Commission on Welsh Antiquities; Professor of Celtic at Oxford University from 1877 to 1907; and recipient of numerous honorary degrees. Here was a man fitted to make mincemeat of any linguist or archeologist who might care to cross swords with him in matters Celtic. His numerous books and papers covered such topics as The Ogam-inscribed Stones of Dublin, Studies in

the Arthurian Legend, Outlines of Manx Phonology, Celtic Inscriptions of France and Italy, Inscriptions and Languages of the Northern Piets, and many others.

One of the tasks Rhys set himself at the outset of his career was to determine, if he could, the relationships between the various Celtic languages. This he did by comparative linguistics, and he set out his main conclusions in a book on Welsh philology published in 1877. The accompanying tables summarize his findings and combine with them the newest information we now have as to the linguistic affinity of the Celts who settled New England during the first millennium before Christ.

Rhys's method was etymological—that is to say he tabulated side by side similar words with similar or identical meanings in all the Celtic languages for which he had any information. He soon discovered that he could group the Celtic tongues into two large divisions, which he called the Q-Celts and the P-Celts. Languages of the Q-group substitute Q, K or CH in numerous words where languages of the P-group have either P or B. It is interesting to note that Q-Celtic is analogous to Latin in this regard, whereas P-Celtic is comparable rather to the Greek. Examples of these Q/P twins are given in the accompanying table.

Another aspect of the work of Celtic scholars concerns accidence—that is, the way in which the terminations of words in inflecting languages change according to the grammatical case in which they are employed. This subject is too complicated to discuss in detail here, but it suffices to say that as old inscriptions were analyzed it was found that the characteristic inflexions of Latin were soon recognized by the same or similar inflections in the old Celtic tongues.

German scholars meanwhile had been investigating the interrelationships between the various languages spoken in Europe and Asia. These studies led to the recognition of the Indo-European, or Aryan, family of related languages, in which Celtic was now recognized as comprising sister tongues of the better-known branches of the family, namely Teutonic (English, Scandinavian, and German tongues); Italic (the extinct tongues of northern Italy, including dialects very close to Gaulish, and the extinct Latin of Rome with its Romance descendants, Italian, French, Spanish, Portuguese, Romanian); the Greek dialects; the Slav branch (with Russian, Bulgarian, Slovene, Czech, and others); and the various eastern branches, including the Iranian and Indian divisions, of which Old Persian and Sanskrit present close parallels to Greek, Latin, and Celtic.

In the course of these studies the German investigators discovered that during the past 2,000 years or more, certain characteristic changes in pronunciation tend to recur in member languages of the Indo-European

TABLE I

Principal Language Groups of Celtic, with Their Ancient and Modern Representatives. The table reflects the researches of Rhys, to which has been added the newly recognized Celtic tongue of the Therian Celtic settlements in North America.

LaNestack e-Rothes	ANCIENT REPRESENTATIVES	MODERN DESCENDANT TONGU
		Insh Gaelic
	Goidelic (Gadelic)	Sents Gaglie
		Manx
Q-Celtic	Inferred dialects in	
	Spain and Portugal	extinct
	Iberian dialect of	
	New England	extend
	Brythonic (Gallo-	Breton (of Britany)
	Brittonic of Britain)	Cornish (of Cornwall) Welsh (of Wales)
P-Celtic	Gaulish languages of central	
	and eastern Europe	extind
	Pictish (of Scotland)	. extinct

TABLE 2

Equivalent O-Celtic and P-Celtic Words, with Latin and Greek Parallels

F NGESSH	LATIN	Q-CELTIC	P-CFLTIC	GREEK
five	quinque	Gaelie: coig Irish: cuig Manx: queig	Welsh: pump Cornish: pymp Breton: pemp Gaulish: pempe	pente
four	quattuor	Gaelic: ceithir	Welsh: pedwar Gaulish: petur	root lacking
hotte	cdant	Gaelic: each	Weish: ebol Gaulish: epos	hippos
bead, peak	caput	Gaelic: ceann	Welsh: penn Gaulish: penno	pindos

family. One of the phonetic changes observed is that an original b tends to be softened to the sound of v. This change has taken place in Gaelic, but as the original sound of b is often retained in certain grammatical forms of the same word, it would be inconvenient to spell the word with a v in some cases, and a b in others, when the same word is intended. To overcome this problem, the old Gaelic grammarians hit upon the expedient of inserting an h after the b whenever the b sound is to be replaced by the sound of v. Thus bata means "ship," but bhata means "of a ship" and is to be pronounced as vata. Similar rules apply to some other letters that undergo changes of the same kind.

One of the ancient names of Ireland is *Ibheriu*, pronounced as *Iveriu*, a fact that suggests that the word is derived from a still-earlier pronunciation, *Iberiu*. Now this is very interesting, for the Gaelic histories assert that the ancestors of the Gaels came to Ireland from Iberia, the old name of Spain. Could *Iberiu* be the same as *Iberia*, the name of the older homeland having been transferred to the younger? Many people, including some linguists, think this may well be the case.

Gaelic tradition also asserts that the ancient Gaels (or Goidels) settled in England and Wales, and were later expelled by an invasion of Gauls from France. This tradition received strong support when the Ogam monuments of England and Wales were found and studied, for it then transpired that the Ogam inscriptions on these are not in the P-Celtic tongue, but in Q-Celtic, as if they had been engraved by the Goidels of England and Wales before their expulsion by the P-Celts, who were of course the ancient Britons and ancestors of the modern Welsh and Cornish.

Putting these facts together, we now discover that apparently Ogam was used only by the Q-Celts. The P-Celts contented themselves with Greek or Latin letters, as we see in Gaulish inscriptions in France.

When I was a student at Edinburgh University during the 1930s most of these facts came to my attention and I could not help but notice that in one of my textbooks on Gaelic etymology, the table of Celtic languages known at that time included an entry opposite the Q-group which read: "Q-Group: Dialects in Spain and Gaul (?)" As I had already visited Spain briefly, this entry intrigued me, but many years went by before I was able to study the problem. As it turned out, it is a question with profound implications for American archeology (see the table on page 42), and this seems to be the right place to introduce the topic, the more so since it offers an opportunity of explaining the hitherto mysterious origin of the Celtic Ogam alphabet.

But before setting out to search for the lost Ogam records of Portugal and Spain, I want to lead you first to Dublin, for there in the capital of Ireland are some ancient bilingual manuscripts whose significance escaped the notice of scholars until 1973.

These manuscripts will lead us not only to Spain and Portugal but also to Libya, to the Canary Islands, and ultimately across the great northern ocean to a remote savage land lying far to the west. The name of this land is given as *larghal*, which means Beyond-the-Sunset. The monks who compiled the Irish manuscripts in the middle ages still remembered the manner in which the *larghalte* ("Sundowners") wrote, even though many centuries had already lapsed since any European ships had visited that distant shore.

It is in Dublin then that I stumbled upon explanations in Gaelic of the ancient alphabets of America, as well as those of Iberia, Phoenicia, and Scandinavia. In 476 A.D. the lamps went out all over Europe as the empire of Rome collapsed and men no longer sailed the great searoads to trade with the western colonies. But the memory of America survived in the writings of Irish scribes, whose alphabets now claim our attention.

5

Alphabets Galore

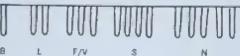
LIBIDEAL GU-LEOR, "alphabets to repletion," as the Gaelic has it, incidentally giving the English language one of the very few adjectives that must follow the noun, in the Celtic manner: alphabets for every occasion, for foreign embassy or secret conspiracy, they are all here, so the scribes of old inform us in the ancient books of Ireland.

What books, and where are they? The oldest references to the Ogam script of the ancient Gaels occurs in a book compiled by a bishop of Kildare called Finn Mac Gorman who died in 1160 A.D. His compilation is called by scholars the Book of Leinster, housed in the library of the University of Dublin, originally founded by Queen Elizabeth I in 1591 under the imposing name of College of the Holy and Undivided Trinity, near Dublin, The library was built in 1732 and, in addition to its collection of more than a million bound volumes, is custodian of such great national treasures as the eighth-century Book of Kells, the most beautiful in the world. It is in the Book of Leinster that we meet with the Ogam alphabet in the form in which it commonly occurs on the ancient stone monuments of Britain.

A similar Ogam alphabet is recorded in the Book of Ballymote, where it is listed as number 16 of a series of some seventy alphabets known to the author of the Ogam Tract. In the book it is stated (folio 62b) that Turlogh the Younger, Son of Hugh O'Connor, ruled Connaught at the time when the Book of Ballymote was assembled from a collection of manuscripts. This means that the book as we know it today was put together some time between 1370 and 1390. Altogether the book comprises 502 folio vellum pages. The original owner was Tomaltach the Younger, Son of Donogh, Lord of Corann, who lived at Ballymote in County Sligo. The book today is housed in the library of the Irish Academy in Dublia. In addition to the tract on Ogam at the end of the book, other component

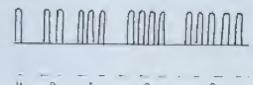


Subscript letters



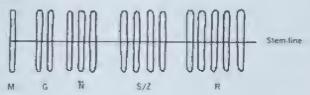
Stem-line
If the stem-line is vertical,
these letters lie to the right.

Supersoript letters

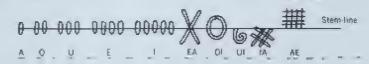


Stem-line
If the stem-line is vertical,
these letters lie to the left.

Intercepts



Vowels and Diphthongs



Ogam Alphabet of the Book of Leinster. Common variants are: (1) Vowels may be written as long vertical intercepts, in which case the consonantal intercepts are sloped. (2) Vowels may be written as mere dots. This is probably the ancient method of writing vowels, as "points," in the Semitic manner. (3) Iberian and American Ogam has fewer consonants, and omits the vowels. This is the oldest style, not found in Britain.

manuscripts deal with history and genealogy, mythology, stories about Irish saints, and the grammar of the Gaelic language.

Another ancient book in the library of the Irish Academy is called the Book of Lecan. This dates from 1416 and comprises 600 folio vellum pages assembled by a man named Gilla-Isa-Mor MacFirbis. It includes a grammatical treatise Uraccipt nan-Eges (Primer of the Bards), attributed to the hand of Cennfaclad the Learned, who died 677 A.D. It is further stated that Cennfaclad obtained his material from still earlier treatises written by Druids named Ambergin and Feir-ceirtne, who lived before the Christian era. This claim is interesting, for the variety of Ogam given in the Uraccipt is the same as that given in the Book of Leinster, matching therefore number 16 of the Book of Ballymote, as well as the lapidary Ogam of Britain generally.

If therefore the standard Ogam of the pre-Christian Druids Amhergin and Feir-ceirtne is assigned the number 16 in the Ballymote series, are we perhaps to treat the Ballymote alphabets with serial numbers 1 to 15 as older still, older even than the lapidary Ogam of the Irish monuments?

Until quite recently scholars have said no. The only lapidary Ogam we know from Britain, they thought, is Ballymote number 16. As lapidary Ogam on ancient stones is obviously older than medieval manuscripts, all the other Ogam styles given in the books cited must just be the childish invention of monks with nothing much to do except contrive codes for writing secret letters to one another. In fact, Dr. Stewart Macalister, who was professor of Celtic Archeology in Dublin, and who wrote by far the most appreciative essay on the Ogam Tract to appear in modern times (Secret Languages of Ireland, 1937), still could not find anything in the work to suggest that the scripts are very ancient. He argued that although the scripts look puerile, we should place them in the context of medieval monasteries. He pointed out that even such leaders as Julius Caesar had found it sufficient to send secret messages to his generals in codes that we today could solve almost at a glance. When few men could write at all, any code, however simple, becomes effective and baffling. Indeed, as Professor Macalister pointed out, one of the varieties of Ogam given in the Book of Bullymote is named Ogam romese Bres (Number 31, The Ogam that bewildered Bres) because the ancient warrior Bres when about to go into battle received a message in this style that so distracted him as he tried to read it that he lost the battle, causing an upset in the Irish World Series that year.

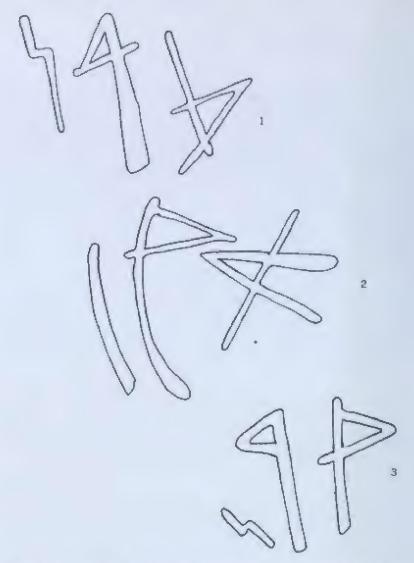
Incidentally, the system of Ogam romese Bres is to replace each Ogam letter by the Ogam spelling of the name of the letter in Gaelic, rather as if we today were to write the name of New York "Enedouble-u wyoarkay." No wonder most European scholars dismissed the Ogam Tract as medieval nonsense!



Gwynn, an early Celtic explorer of Oklahoma, cut his autograph in two languages on a rock face on Turkey Mountain, near Tulsa, where Gloria Farley discovered it and obtained this latex mold. The upper line of Ogam script reads, from left to right, G-W-N. Gwynn, a common Celtic name, means "white," i.e., fair-haired. Below, reading from left to right, are the North Iberian letters Pa-ya-a, spelling a Punic word that also means "white," and corresponding to modern Arabic Byaa. The date of the inscription is perhaps around 500 B.C. Malcolm D. Pearson

However, these rather silly code systems are found in the latter sections of the Tract, and the straight alphabets are another matter altogether. The reason why scholars dismissed these too as of no importance was simply because no other examples were known of such writing. Of course, if anyone had been able to find in Ireland or Britain ancient stones with inscriptions that matched the alphabets given in the Ogam Tract, numbers 1 to 15 in particular, then the importance of the Tract would have been recognized as soon as it could be shown that the Tract yielded a successful decipherment. Indeed, even if no decipherment had resulted, the mere fact of proving that lapidary inscriptions exist using the same letters as some particular script in the Ogam Tract would have been enough to establish the credentials of the author of the Tract as one who had knowledge of ancient lapidary inscriptions.

But neither of these conditions was satisfied. Except for Ogam number 16, that is, the standard (and only) Ogam of the Book of Leinster and



The inscriptions on the Susquehanna gravestones have until now been considered by some archeologists to be "accidental markings made by plowshares and the roots of trees." The absurdity of this is sufficiently illustrated by the fact that the same combinations of Iberian Punic letters occur repeatedly on different stones. Here are three examples of the name A-R-N (the letters to be read from right to left), spelling in the vowelless manner of ancient Iberian scribes the name Arano ("Eagle") of the Basque language. When Spanish journalists reported our finds the Epigraphic Society received letters from modern Basques who had learned that their family names are inscribed on ancient stones in America. The above examples were recorded (1) by Fell, (2) by the late William Walker Strong, original discoverer of the Susquehanna gravestones, and (3) Gertrude Johnson. Other notable Basque family names found include Galba (a family that gave Rome one Spanish emperor), and Muga (a name perpetuated also among the Shoshone Amerindians). Yet other Susquehanna gravestones carry names that also occur on an ancient Roman paymaster's list of Spanish legionnaires.

	Iberian			American						
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Examples of Iberian-Punic alphabets from Iberian and American sites, circa 800-200 s.c. Adena 1, central West Virginia, Wilson-Braxton tablet; Adena 2, Grave Greek, West Virginia; Adena 3, Susquehanna, Pennsylvania. Aptuexet 1, Komasakumkanit, Bourne, Massachusetts; Aptuexet 2, North Salem, New Hampshire; Aptuexet 3, central Vermont, temple dedications on bilingual Goidelie-Punic steles.

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Early Ogam alphabets of Europe and North America. The oldest styles employ only consumants, and appear to date from around Soo n.c. nowards. The fulls developed Irish style, with vowels and the whole range of consonants, appears only in monuments believed to postdate the time of Christ.

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Folio page of the Ogam Tract in the Book of Ballymote, in the library of the Irish Academy, Duhlin.

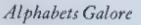




The commonest variety of Ogam script in Ireland is "Edge Ogam," in which the angular edges of the stone serve as the stem-line, alternate columns being read upwards and downwards. An Irish example of edge Ogam is shown to the left (to be contrasted with the older surface Ogam of the Ballintaggart phalli, see page 22). In America examples of edge Ogam are uncommon; one from the Susquehanna valley is shown to the right, and reads from above dome B B-H-L M-B la-B-G-G in the ancient vowelless style. This is apparently to be translated as "To Baal Son of Jabagug (or Habakuk)." This is from a Celtiberian community where Semitic and Basque names occur, and both Ogam and Iberian scripts are employed. James P. Whittall II, Peter J. Garfall

The name of the sun god Bel appears in Ogam script on the lintels of temples dedicated to sun worship. Above, B B-L (Dedicated to Bel) inscribed on a triangular plate of schist found at the winter solstice temple at Mystery Hill. Middle, the same inscription, with a solar symbol incorporated into the L, from the equinoctial temple above South Royalton, Vermont. Below, B-L inscribed on the lintel of the chamber or metonic temple at South Woodstock. Peter J. Garfall, Joseph D. Germano







the Book of Lecan, no lapidary examples turned up, despite two centuries of searching. So the modern scholars of Europe dismissed the Ogam Tract as "worthless child's play."

Now it just so happens that some of the inscriptions of North America are written in the very scripts that could not be found in Europe. They have remained unrecognized and unsolved, while over in Europe the study of Ogam was all but given up, for lack of anything new to say about the 400 inscriptions that had already been found and recorded. Never was there such a breakdown of communications among the English-speaking archeologists of the new and old worlds! While we in America could make no sense out of rock inscriptions whose solution lay clearly explained in the Ogam Tract (a fact not then known to us), our colleagues in Europe could find no such rock inscriptions and concluded that the Ogam Tract dealt with monastic fantasies, nonexistent imaginary alphabets that no one ever really used.

Nor was this the limit of the aspersions cast upon the hapless monk who wrote the Ogam Tract. In the latter part of the Tract occur a series of foreign alphabets with their Celtic gothic-letter equivalents for each letter. These too came under the scornful notice of linguists whose knowledge of epigraphy was somewhat less than adequate.

First of the foreign alphabets is one that the scribe calls Egyptian, and in this he is certainly correct, for it matches very well the tables of Egyptian Aramaic forms compiled by Professor Robert H. Pfeiffer from Egyptian papyri of the period around 400 B.C. and published in his work Ancient Alphabets (1947). These tables had already been completed in 1936, in which year they were exhibited as part of the special celebrations of the Tercentenary of Harvard University. Thus, as we now see from the comparative tables given in this chapter, the medieval Irish monk who wrote the Ogam Tract was already in possession of information that was only regained by modern students of Semitic epigraphy after years of excavation and research in the Egyptian desert. But all the modern students of Irish could find to say about this important correlation was

The monogram of Bel, composed of the Iberian and Phoenician letters B-L, combined with three parallel strokes to give in addition the Ogam letters B-L under a stem-line, or merely the letters B-L of either alphabet alone, occurs as engravings on flat tilelike pieces of schist, sometimes triangular in shape. These objects are found at localities where there evidently was once a temple to the sun god. The examples illustrated are: above, from Raymond, New Hampshire (where funerary stones of small module have recently been reported, built into stone walls); and below, from South Woodstock, Vermont. These stone tablets are probably votive offerings, purchased from a priest upon approaching a sacred precinct, and then left behind by the pilgrim as an offering in support of some prayer. Peter J. Garfall



A North American example of a lapidary inscription in the style of Hinge Ogam (No. 3 of the Ogam Tract), shown here as a latex mold collected on Manana Island, by Monhegan Island, about ten miles offshore from the coast of Maine. This variety of Ogam, unknown from stones in Ireland or elsewhere in Europe, was once dismissed by scholars as "worthless childsplay," supposedly the invention of medieval monks. But the American example, lacking vowels and coeval with Phoenician inscriptions, shows that this alphabet is a Bronze Age predecessor of the Irish Ogam (No. 16 of the Ogam Tract). The inscription reads from right to left (L)-NG-B-T B F-N-C C-D-H-H L-B-D, apparently to be translated as "Ships from Phoenicia, Cargo platform," the island having a flat horizontal surface of rock. This inscription is discussed in chapter 8. The occurrence of a supposedly Norse word (long-bata, i.e., longboat or ship) parallels other Norse words and personal names found on Celtiberian steles, and suggests that Norsemen were abroad long before the Viking age. Coll. James P. Whittall II, photo by Joseph D. Germano

that "the Egyptian alphabet, so called, is a very corrupt form of the Hebrew alphabet." Now this is rather like saying that "the Latin alphabet is a very corrupt form of the English alphabet," for it puts the cart before the horse.

After the Egyptian alphabet come two alphabets that the scribe calls African. And here, again, he is correct enough, for one of them is clearly a semicursive version of the late Numidian script in its transitional phase to becoming the Tifinag alphabet of the Berbers. I have worked with these alphabets, and recognize the affinity of the Irish manuscript variety. The other script called African by the Ballymote scribe may very well have been African at one time, though we recognize it now as a variety of the Iberian script used by Phoenician speakers in southern Spain during the first millennium B.C. On these alphabets the Irish critics have made no meaningful comment at all. What now requires to be said, and let me say it, is that modern epigraphers struggling with the intricacies of the Iberian Semitic scripts are grateful to the Ballymote scribe for having thus given us so much encouragement by confirming so many of the equivalences of shape and sound that my Spanish colleagues and I had inferred on more indirect evidence.





New world chiefs with old world names. Above, tombstone of a Vermont ruler named in the Ogam characters as Y-G-H-N or Yoghan. In modern spelling this would be rendered as Eoghan, the original form of the widespread Celtic family names Ewan and MacEwan in Scotland and Ireland; and of Evan and Efan in Wales, with derivative forms such as Bevan. This ancestor of their clan apparently ruled in New England around 500 s.c. Below, the inscribed portion of a large block of stone carrying the name in Ogam characters L-G-H M-B M-B-M, probably to be rendered as Lugh Mab Mabimo, "Lugh son of Valiant." Lew is still a name used in the old world, and Lugh probably meant a devotee of the Celtic god Lug (or Mercury, it is supposed). Joseph D. Germano





Yet more foreign alphabets in the Tract are attributed to the Lachlann, that is, the Norsemen, and they are typical of the runic series, with their numerous variations. All the Irish linguists could find to say is that they are "badly drawn!" As Johnson said, "The Irish never speak well of themselves," an assertion that in this context is by no means an overstatement.

In the tables that accompany this chapter I have taken a representative selection of the varieties of Ogam script reported in the Ogam Tract, with preference for those that appear to be old or which we have since been able to discover in actual use in lapidary inscriptions in Iberia or America. To these are added tables of the foreign scripts reported by the Ballymote scribe and matching tables compiled from the work of European epigraphers who have used data other than the Ogam Tract in deducing the sound values of the letters. Here I have also incorporated sound values determined in the course of my own researches.

Certain information given in the Ogam Tract should be mentioned here briefly, though it is discussed again when confirmatory evidence is presented in later chapters based on the newly discovered inscriptions. One of these topics is the assertion by the Ogam Tract that Ogam writing developed from finger language. This I can attest, and the evidence is given in the chapter that follows. Another point made by the author of the Tract is that Ogam can be written at will upwards or downwards or horizontally, or even along the divergent radii of a circle, and he gives examples of the same word written in these various ways. This is also well attested by the most ancient inscriptions we have detected in Portugal and Spain. In the next chapter I will show how the ancient scribes made use of this rule to contrive word pictures in rebus form, apparently intended as a means of instructing the student Druids in acquiring the art of writing. Although the word rebus is explained in a later chapter I should perhaps mention here that nearly all ancient writing systems make use of the device, for two reasons. For one thing, if you can distort letters of the alphabet just a little (without making them unreadable) you can sometimes make a word look like the object it refers to. An example of this is seen in the inscription found on many of the astronom-

When our finds of Ogam inscriptions were first announced, one professor at Yale suggested that we might be mistaking the marks made by the stonecutting drills used by colonial masons. Here (above) Dr. Sentiel Rommel demonstrates the use of a colonial drill cutting a block of stone in half. Below, Fell holds a colonial wedge to a line of "Yale Ogam" left by early colonial quarrymen in a granite outcrop near Rommel's property in Rhode Island. As is obvious, the Ogam inscriptions of the Celtic sites have no connection with colonial drilling. Rommel and Fell

62 America B.C.

ical observation pillars of the New England Celts. What looks at first sight to be a human eye is seen on closer examination to be made up of Ogam letters spelling the words "Observation pillar." Another reason for using the rebus is illustrated by words that are hard to illustrate, like "brother." If you draw a man, it will be read as man, and not as brother. The ancient Egyptians, who used picture writing (hieroglyphs), discovered the solution. The word for brother in Egyptian is sen. But this is also the same sound as the Egyptian word for a spoon. Their solution, then, was to draw a picture of a spoon, and to draw immediately beside it a picture of a man; this told the reader that the word sen is to be understood in the context of a man; that is, it had to mean brother.

6

Clues Lead to Spain and Portugal

S events were to prove, archeology was now on the brink of an exciting find that would carry the written records of the Celts much further back in time than anyone had dared to hope. Let me first recapitulate briefly the three clues that were already in our hands.

- Only the Gaelic Celts of Britain seem to have been acquainted with the Ogam system of writing. The Gauls of France and the P-Celts of ancient Britain employed Greek or Latin letters, as their coins attest.
- (2) Gaelic tradition asserts that their ancestors came to Britain from some earlier homeland in the Iberian Peninsula.
- (3) The oldest Gaelic name for Ireland is Ibheriu, a word that resembles Iberia. Migrant peoples commonly carry the name of a former homeland to the new homeland.

Putting together these three pieces of information, it became apparent to me that a search for possible Ogam inscriptions should be undertaken in Spain and Portugal. This would require research funds to cover the cost of travel. As efforts to raise a supporting grant had not been successful, however, the project had to be laid aside. Then, unexpectedly, some remarkable new data came into my hands.

Some years earlier I had made the acquaintance of the Norwegian Dr. Jan-Olaf Williams, at that time a graduate student in environmental engineering at the Massachusetts Institute of Technology. As Norwegians and Danes can understand each other's speech and I happen to speak Danish, we had occasionally chatted in these tongues. He recalled this,

as well as my interest in languages, when a few years later he met another young Norwegian, a linguist named Erik Reinert also studying in Cambridge, at Harvard University. Erik had spent two years traveling in South America, where he acquired a knowledge of the Guarani and Quechua tongues in addition to about ten European languages that he had studied before coming to America. Jan now introduced Erik to me because, as I soon learned, Erik had traveled in Paraguay and brought back some pictures of rock inscriptions in an unknown script found in caves near the upper reaches of the Paraguay River. I recognized the inscriptions as Iberian, and read that they recorded a visit to Paraguay by ancient mariners from Cadiz. The writing style suggested a date around 500–300 B.C.

What was even more surprising was that some of the inscriptions were written in what I recognized as a new kind of Ogam—a variety that employed only consonants, the vowels being omitted. This habit of writing with only consonants is characteristic of the Semitic peoples and in the millennium before Christ it was especially characteristic of the Phoenicians. The Phoenicians are known to have had colonies in southern Spain; indeed, they are the founders of Cadiz, the city whose name I read in one of the inscriptions. They carried their Semitic tongue to Spain, where it was acquired by many of the native Spanish peoples, who wrote it in a variant of Phoenician script that epigraphers call Iberian.

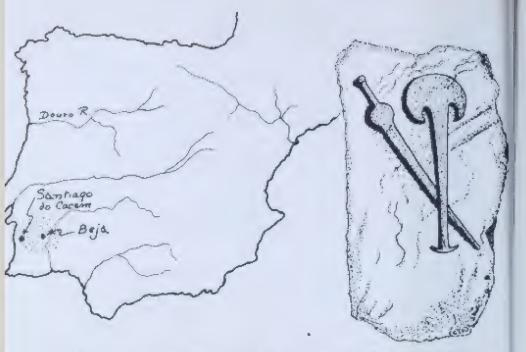
The most curious thing about the inscriptions in Ogam is that the language contained in the Ogam writing is not a Celtic dialect, but instead a form of Phoenician. In other words, the Iberian sailors who had cut the inscriptions on the cave walls near the navigable waters of the Paraguay River had employed two different alphabets, one Ogam and the other Iberian, though the language they used in both cases was a dialect of the Phoenician tongue. Erik and I wrote a joint report on his finds that was published by the Epigraphic Society and aroused interest in Spain.

One of the consequences was that, through the kind offices of Mr. Gerard Kraus, I received from the authorities of the Museo Canario in the Canary Islands a fine series of reproductions of cave inscriptions found there by Dr. Antonio Beltrano Martinez, and with this material came a cordial invitation to attempt the decipherment of the inscriptions. I will discuss them in a later chapter, but mention them here in order to observe that some of them are in the Libyan language, but written in Ogam letters—consonants only, no vowels.

It was clear that we were now on the way toward finding some new evidence that could be expected to throw light on where these Spanish and Libyan Ogam-writers had obtained their knowledge of what we had always considered to be a Gaelic alphabet. It now seemed very likely that somewhere in the Iberian peninsula there must have lived during the first millennium B.C. some Celts who were related to the Gaels who later settled in Britain and Ireland.

James Whittall, whose personal knowledge of Iberian Bronze Age archeology is founded on wide-ranging travel and buttressed by a vast collection of color slides of Iberian sites and artifacts as well as an associated library of Spanish and Portuguese scientific publications in this field, now became deeply interested in our results. He had already, some years earlier, expressed the opinion that many of the supposed "root cellars" of New England are the work not of colonial farmers but of some Bronze Age people from the Mediterranean and had given further precision to his opinions in 1969 by drawing an explicit parallel between the megalithic buildings of Portugal and the similar stone structures of New England. Jim now provided me with numerous documents, books, and color slides from his collections, and it was our shared hope that somewhere in this mass of material we might find evidence on the question of whether Ogam writing was ever used in Spain and Portugal, and if it was used, what were the languages employing the Ogam alphabet. It was a fortunate chance, indeed, that brought Jim and me together at this time, for it soon became clear that his collections contained the raw data I needed to complete my epigraphic inquiries; and at the same time what I now found in his collections gave him the information he needed in order to zero in on the precise parts of the Iberian peninsula where he might expect to find archeological materials directly related to the New England sites.

Before long I was able to identify several localities in Portugal where, as I could see from the inscriptions visible in the pictures Jim had obtained, there are to be found Ogam writings, the chief of these being located on or near the Douro River, draining northern Portugal. Here, to my great satisfaction, I found bilingual and trilingual cliff and rock paintings and engravings, in which one of the languages is Celtic. More important still, the script employed is a variety of the Ogam cipher called Aradach Finn (Finn's Ladder) in the Book of Ballymote. In Professor Macalister's classification of the Ogam styles he groups together several quite diverse variants with the Aradach Finn, all having the common property of dissecting or eliminating the stem-line. The Iberian form now identified is closer to the common model than either of the two Irish variants that Macalister has grouped with the type example, which (significantly) is given as number 1 in the Book of Ballymote and which might therefore represent the oldest kind of Ogam. As was soon to become apparent, the numbering sequence of the Ogam styles in the Book of Ballymote is such that the oldest styles have the lowest numbers,



The Bronze Age Beja Culture-1. A highly characteristic development of the late Bronze Age in Portugal is a funerary culture whose monuments to chieftains are found distributed around the region of Beja, in southern Portugal. Here occur large flat slabs of schist rock, about a meter in length, cut to form the covering flagstone of a grave, and having insignia engraved of crossed weapons, in the manner of a coat of arms. Swords are sometimes incorporated in the insignia, and the variation in their form suggests dates ranging from about 800 n.c. to 500 n.c. An example from Santiago do Cacem, near the Atlantic coast south of Lisbon, is shown here. Remains found beneath Beja funerary slabs have included fragments of skeletons and pottery of Bronze Age type; some burials, however, had been looted in ancient times, and the grave site reused by later peoples. This Beja Culture, as yet little studied, may prove to be critical in determining the period source of Celtic Iberian settlement in central Vermont, as the next illustrations show.

The Bronze Age Beja Culture-2. In 1975, by following clues yielded by my decipherment of Ogam milestones, John Williams succeeded in finding the settlement area in central Vermont which we now designate Precincts of the Gods (from the name given on the last milestone). On a lofty ridge above the temple area John found a partially buried and collapsed structure resembling a dolmen. What appear to be the insignia of a king of the Beja culture of southern Portugal are engraved on one end face of the large capstone.

It is probable that we have here the actual tomb of one of the early Celtic kings of New England. Excavation may disclose that the interior has been rifled in ancient times, as in the case of some of the Beja tombs of Portugal, but whether or not this proves to be so, the monument itself is a fine addition to our national treasures. Above right, tombstone with coat of arms of an early Celtic king of New England. Objects depicted are a long-handled Celtic buttle-axe (or Lochaber axe), set across a palmicaf, symbolizing war and peace. Below, John Williams at the find site in Vermont, John Williams, Joseph D. Germano





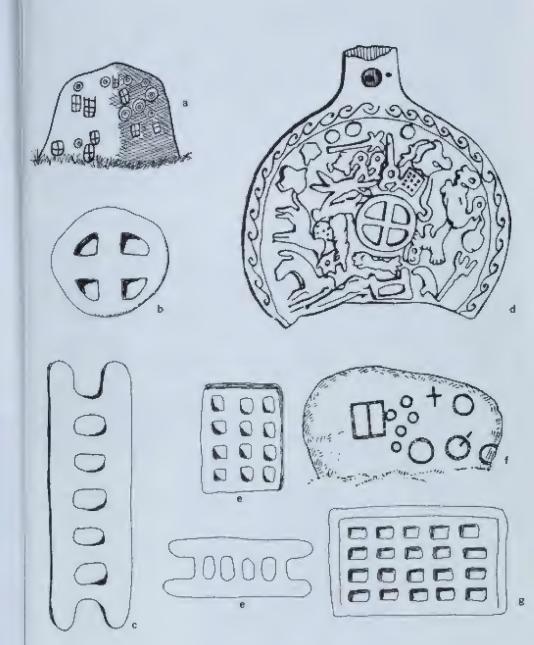
and it is these low-numbered archaic styles that are most widely distributed outside of the British Isles.

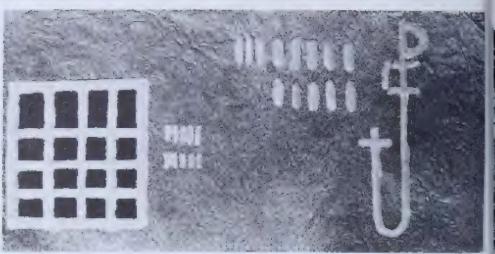
As the illustrations show, the Iberian style of Ogam, especially as seen at the Cachão da Rapa in the Douro valley of northern Portugal, is associated with solar symbols such as the disk of the sun and the checker-board symbol that seems to represent an early form of sundial, already well known from sites of solar cults elsewhere in Europe, as for example early Iron Age cultures of Tarentum, Naples, and other southern Italian locations. At some of these European sites the checkerboard symbol is associated with the sun-rotula, or miniature spoked wheel, a universal sun symbol. Later, in North America, we were to find the same symbols associated with evidence of sun worship and, like the Iberian examples now confronting us, accompanied by Ogam script of the Finn's Ladder variety.

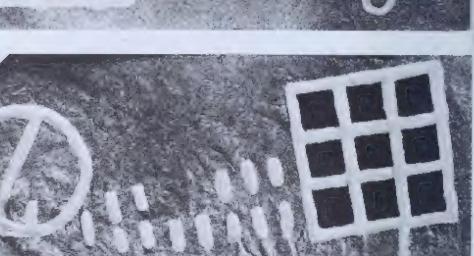
Particularly important was one inscription of the Cachão da Rapa series in Portugal for here, as already noted, I was able to read the letters G-L-N, placed between a painting of the disk of the sun on the left and a sundial checkerboard on the right. In modern Gaelic grian is the word for sun, matching Welsh greian and Sanskrit ghrnis, sunshine, It is evident that in the vowelless form of Ogam (matching the vowelless Phoenician that occurs also at Cachão da Rapa), the Ogam writer did not distinguish the letters r and l. This is a characteristic of many languages and writing systems such as Japanese. The two sounds intergrade through a series of letters, lacking from English, but carefully distinguished in some oriental languages by signs such as r, r, l, and I (or their equivalents in eastern scripts). In Hawaii, for example, aloha (love) is so spelled and pronounced. In New Zealand it is spelled and pronounced aroha; but in the intervening islands the European ear is bewildered and his tongue bedevilled, for there is neither an r nor an I in the word but something in between. Mariners visiting the islands, however, have never allowed this linguistic problem to interfere with international friendship.

The Ogam inscriptions of the Cachão da Rapa are painted in brilliant blues and vermilions on the face of a cliff shelter where rain seldom percolates, so they are well preserved and have in fact been known to archeologists for at least two centuries. Since such bright pigments were

Symbols of sun worship-1. Throughout all phases of the Bronze Age in Europe, worship of the sun was a conspicuous religious trait, and sites where solar worship occurred were indicated by esoteric engraved or painted signs, especially the rotula or sun-wheel, and a checkerboard or sometimes ladderlike symbol, perhaps signifying a sundial. Examples shown here are: (a) from Serrazes, San Pedro do Sul, Portugal; (b, c) southern Italy; (d) an amulet from Tarentum, southern Italy; (e) detail from an amulet, Naples, Italy; (f) La Vaux, Brittany, engraved monoliths; (g) southern Italy. (a, after Rodrigues; others from Dechelette)







Symbols of sun worship—2. On painted rock-shelter walls at Cachão da Rapa, in the Douro River valley in northern Portugal, sun symbols occur in association with Ogam and Punic inscriptions. The inscriptions show that these paintings are of the late Bronze Age, and not classifiable as neolithic arte esquematica (as hitherto believed). In the upper photograph a Phoenician monogram reading T-R-S (turs, disk of the sun) occurs side by side with Ogam letters also spelling T-R (the S omitted as an inflection). By the checkerboard symbol occurs the Ogam letter R, for Ra, the sun. In the lower illustration a sun disk and checkerboard pattern are separated by the Ogam letters G-L-N (Iberian Celtic for grian, Goidelic word for the sun). From plaster reproductions by Fell, photographed by Peter J. Garfall

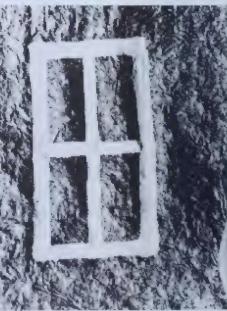
Symbols of sun worship-3. In 1975 Fell was taken to see inscriptions on rocks near South Royalton, Vermont, which Byron Dix, an astronomer, had identified as marker stones used by some ancient people as calendar regulators, corresponding to sourise and somet directions on particular days of the year, namely the solstices and equinoxes. The signs were at once identified as Bronze Age solar symbols, and associated Ogam of the Iberian type showed that the inscriptions were the work of Bronze-Age Celts of Iherian origin. Photographs by Peter 1. Garfull from casts prepared by Fell











Symbols of sun worship-4. The New England sun symbols were thickly overgrown by lichen when discovered (top left), a fact that disproves claims that we were forging the inscriptions. Inscriptions of a like nature were later found elsewhere in New England, as exemplified by one from Raymond, New Hampshire (bottom left). In contrast to local attitudes, Portuguese archeologists were quick to recognize the correspondence of the American and Iberian material when it was drawn to their attention. Like the Iberian inscriptions, these American examples are to be dated to the late Bronze Age on account of the associated Ogam and Punic inscriptions. Fell and Peter J. Garfall

Symbols of sun worship-5. In Europe after the coming of Christianity, the old pagan sun symbols were adapted to serve an acceptable function within the approved canons of the church, for the monks were unable to detach the people from their mystic worship of the rotula. Left, the so-called Celtic cross, exemplified by the ancient Cross of Iona. Right, an old Basque tombstone in the French Pyrenees, in which the cross is formed from 5 sun wheels. Christian missionaries did not reach the New England Celts, so the pagan inscriptions in Ogam and Punic letters have remained intact in their original form. Iona Cross from a replica collected by Elizabeth M. Foster, Edinburgh; photographs by Joseph D. Germano





74 America B.C.

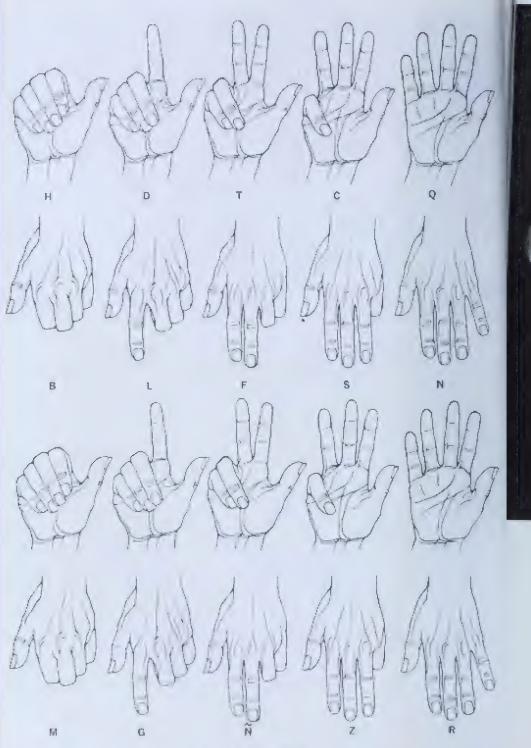
not known to Neolithic men, it is surprising to find that European archeologists have classified these inscriptions as a form of Stone Age art, known in Spain and Portugal as Arte Esquematica, a name given by the great French archeologist Henri Breuil. So far as the Ogam inscriptions are concerned, these and the associated Libyan and Phoenician texts must of course be removed from this incongruous classification and transferred to either the latter part of the Iberian Bronze Age or the earliest part of the Iron Age. The form of the associated Phoenician letters suggests to me a date around 800 B.C.

There is another type of Ogam found in Iberia, as exemplified by the rebus pictures of Cogul, in Lerida, Spain. A rebus is any style of writing in which the letters are so arranged as to suggest a picture of the topic to which the writing relates. We are familiar with it in advertising, for example, when a baker will place a sign above his shop in which the letters BREAD are made to form the shape of a loaf of bread. This style of writing was much more popular in former times than it is nowadays. There is a fascinating rebus at Cogul in which the Ogam letters are arranged along stem-lines that are alternately horizontal and vertical, thereby producing a stylized Picasso-esque picture of two stags, their legs and antlers supplied by the Ogam strokes, their bodies and necks by the stem lines. To this is added a drawing of a youth with bow and arrow. The solution is easy, as seen in the illustration on page 75. This style of Ogam is listed as number 24 in the Ogam Tract, but Macalister groups it with the others that he links with Finn's Ladder-that is, Ogam in which the stem-line can rotate into various positions. In the Ogam Tract oblique angles are also acceptable for the stem-line. Petroglyphs of the Cogul type are common in Sweden, and these might repay closer study, for they too may be rebus forms; but that is a topic beyond the scope of this chapter.

Yet a third type of Ogam can be recognized in Spain, corresponding to what the Ogam Tract calls Cos-Ogam and Sron-Ogam, classified by Macalister as cryptocheironomy, a long word that means secret communication by hand signs. The author of the Ogam Tract tells us that the strokes above, across, and below the stem-line represent the fingers, though he does not explain all the details. In Cos-Ogam a squatting man can use his shin bone as the stem-line (vertical, of course) and employ the fingers of each hand to form the one to five strokes on either side required to make the letters. Presumably the strokes that cross the stem-line are to be formed by simultaneously using corresponding fingers of both hands at once. The only value of such a proceeding would seem to be that two literate persons (for example, Druids) could exchange information in the presence of other illiterate persons (for example, clients



Ogam rebus as rock painting at Cogul (Lerida), Spain. This Picassoesque sketch of two stags and a hunter reads also as an example of Ogam with dissected stemline, no. 24 of the Ogam Tract, yielding from left to right: L M-B D-M-V (hunter) C-S L-B. This may be construed as the Celtic roots "With the youth (is) a stag. The hunter bends his bow." Pictures such as these may be the relies of the schoolwork of young Druids, learning their letters. Garfall and Germano







Inferred Ogam finger language as seen in functory monuments from the ancient necropolis at Molina (Ibiza), Spain. Left, nude warrior whose hands signify his death in combat (Q-B). Right, woman with all digits of both hands extended, signifying mourning for death (Q-N). Museo Arqueologics Nacional, Madrid

Ogam finger alphabet

at an oracle), and the illiterate consultants would not understand the communications. This is on a par with the rather clever techniques of mountebank mind readers whose performances used to startle our grand-parents, only in that case the secret communication was by means of the initial letters of the patter invented by the intermediary who introduced the client to the blindfolded visionary. The other variety of hand Ogam mentioned by the Ogam Tract under the name Sron-Ogam is similar to Cos-Ogam, but the bridge of the nose is used as the stem-line.

In the illustrations you can see how the system apparently worked. I asked the artist who drew them, Lydia Wunsch, to make the letters in the way the Ogam Tract describes, and assigned the right hand to the upper staves (that is, the series from H to Q), and the left hand to the lower stave (letters B to N), while both hands at once yield letters M to R. The reason for assigning the hands in this way (instead of vice-versa) is that in the cemeteries of ancient Celtic sites in Spain there are found statues of deceased persons who are holding their hands in a peculiar way, with certain fingers extended, others retracted. You will see examples from Molina in Ibiza on page 77. Of course, the most likely explanation of these strange hand positions is that the figures are expressing a word in finger language. There are also well-defined differences between the manners in which people are depicted. The young male figures are commonly nude, and if nude they hold the five fingers of the right hand aloft while only the thumb is raised on the left hand (remember that when you face a person his left is your right). We know from classical writers that Celtic men went into battle nude. Hence these must represent warriors who died in battle. But the word that means "in battle" in old Goidelic is gath, pronounced as "kah." If we read the finger letters in the way I have suggested, then it turns out that the warriors are telling us that they died "in battle."

Now we can test out the hypothesis by seeing what happens if we read the fingers of other monuments in the same way. We then discover that the women (who are fully clothed and hold all five fingers of both hands in the extended position) are apparently saying Q-N. Since vowels are omitted, Q-N is how an Iberian Celt would spell the word qaoin, corresponding to the modern Gaelic and Anglo-Irish word "keen," meaning to utter lamentation for the newly dead, as at an Irish wake. It seems then that these ladies are saying to us something like "Weep for me," or as the French might express it, "Ayez pitié!"

In Celtic mythology, as Professor Proinsias MacCana of University College, Dublin, tells us in his book so titled, the wheel was the form in which thunderbolts are represented, and there is a fine embossed relief of the Thunder-God Taranis holding thunderbolts on a Celtic bowl in the



Clues Lead to Spain and Portugal

Taranis, the thunder god. Note the peculiar elevation of the thumbs. Nationalmuseet, Copenhagen

National Historical Museum in Copenhagen. Look at the hands of Taranis in the illustration. In each case the thumbs are elevated, a highly unlikely circumstance if one were to grasp two wheels of the size he is manipulating. Once again we suspect a concealed Ogam message. The ancient Goidelic word for thunderbolt is not known to us, but in modern Gaelic, beithir can have this meaning. I suspect that Taranis is saying B-H or "Bith," and that this may represent the sound of the word for thunderbolt in ancient times. In Chapter 12 you will note that one of the Iberian visitors to Oklahoma engraved two wheel-shaped objects on the Cimarron cliffs, together with the Punic-Iberian letters B-R-K, baruk, meaning thunderbolt in the Punic tongue. In that case it may perhaps commemorate the name of the visitor's ship. This, of course, is only a guess, but we do know that ancient ships were given names of that kind.*

The upshot of the examination I had made of Jim Whittall's extensive lberian collections was to convince both him and me that we now had firm evidence that Celtic speakers who wrote in Ogam script, and hence were presumably Goidels, had once lived in Spain and Portugal, This finding, as will be apparent from the next chapter, has great significance for American archeology. As this book was written Jim made yet another visit to the Iberian sites, this time to pay special attention to the particular districts where the Ogam inscriptions tell us to expect other material evidence of the one-time presence of Q-Celts.

7

Mystery Hill

Y the beginning of May 1975, several signs began to warn us that there was a faint but real possibility that we might be on the verge of solving the most baffling problem of American archeology, namely the identity of the builders of the mysterious "root cellars" of the northeastern states and the date of their occupation. These signs were:

(r) The so-called "root-cellars" appeared to be the work of megalithic people; that is, they resembled corresponding structures in Europe dating from the Bronze Age and known to have been in use by the Celts in classical times.

(2) We now knew that Celtic inscriptions occur in Spain and Portugal, associated with Iberian Punic inscriptions, and in the vicinity of

megalithic structures.

(3) Iberian Punic inscriptions were identified by me at sites near Boston to which I was taken by James Whittall. These inscriptions (see page 89) appeared to be the work of casual voyagers visiting America during the era of about 500-300 a.c.

Although my researches up to this time had been related to inscriptions of Europe and the Far East, Jim Whittall perceived that the parallels between the archeological settings in New England and in western Europe were now much clearer than had previously been realized. He now began to show me the files of photographs taken by Malcolm B. Pearson over the previous 35 years, illustrating the principal features of the so-called "root cellars" and other apparently megalithic structures. In company with Professor Norman Totten, Chairman of the Department of History at Bentley College, we studied these and pored over every detail we could make out, searching for traces of Ogam or other lettering that might disclose if any Celtic occupation had occurred. None could be detected. Re-

^{*} Saint Paul traveled to Malta on the Castor and Pollux with 230 fellow passengers.



luctantly I had to tell Jim that unless there were inscriptions I could throw no light on the problem.

Nonetheless, despite these discouraging results Jim Whittall and I visited the best-known of the sites on June 14. This is Mystery Hill, New Hampshire, a complex of stone-slab chambers and associated henge stones oriented so that the sun sets behind particular standing stones on the days of the equinox and the summer and winter solstices (see chapter 7). The site covers approximately 20 acres, mostly occupied by second-growth woodland through which run peculiarly constructed dry-stone walls with tall, pointed, triangular stones occurring at regular intervals in the walls. It includes an area of about one acre covered by a maze of massive stone chambers with various other striking but puzzling features, such as the so-called Table of Sacrifice (page 84).

Some of the slab chambers reminded me of the dunans ("little fortresses") of the ancient Goidelic Celts that I had studied in Scotland many years before. I was struck by the occurrence all over the site of flat flagstones of triangular outline, and these reminded me of the triangular slabs I had seen set above the lintels of dunans in northern Scotland. Although the things that I was shown that day by Robert Stone, the present owner and devoted protector of the site, made a profound impression on me, the one feature for which I was particularly alerted was, of course, whether or not any inscriptions had been found at Mystery Hill. It now turned out that such had indeed been found, and fortunately preserved in the museum on the site, but it had not been realized that the strangely marked stones carried anything that could be read as writing. Writing it certainly was that I saw before me, not the Celtic script I had hoped for, but severely weathered Iberian Punic script. Before I refer further to these, I should here interpolate some short outline of the history of the site as an archeological object.

When the first colonial settlers came to New England they found numerous stone buildings of one storey, circular or rectangular in form, up to 30 feet in length (usually half that) and up to 10 feet wide and 8 feet high or more. Some were completely sunken beneath the ground and were only discovered years later when a roof caved in or a plow or pickaxe penetrated the chamber. Others were partly buried or had mounds of earth covering them and trees growing from the top of such a size as to indicate an age of at least 250 years. Still others were wholly above ground or excavated into the side of a hill. All were made of large stones and included roof slabs weighing several tons. Many had elaborate "smoke holes" and other recesses built into the walls.

The colonists, asking no questions apparently, accepted these structures as the work of vanished Indian tribesmen and put them to use as



The so-called Table of Sacrifice at Mystery Hill, New Hampshire, is a large rectangular rock slab bordered by runnels that drain into a former receptable placed at the front right corner. Although its function is still uncertain, James Whitall on his 1975 expedition to Portugal learned that some thirty similar grooved tables have now been discovered on ancient sites in that country, some of them known to be associated with hurial grounds. Norman Totten

storage cellars for their root crops. Some were used as secret hide-outs by escaped slaves and others were made to serve as illicit whiskey distilleries. Most were referred to guardedly if at all as "root cellars," and in the course of time large numbers of them were dismantled and their stones used for making dry-stone walls. This latter fact is abundantly attested by the number of temple dedications we have since found in stone walls together with much other evidence as to the origin of the large stones in the walls.

The large complex of slab buildings now called Mystery Hill became the property of a settler named Pattee, who arrived in North Salem, New Hampshire, in 1823. In the following twenty-five years about 40 percent of the stone structures were destroyed or damaged severely by building contractors who visited the area to obtain stone for dams and bridges.

Until 1893 no one seems to have stopped to think whether these New England structures might have a remote origin. Almost everyone by this time supposed that their own forebears had built the "root cellars," and this became the accepted belief of archeologists, who began to speak of them as colonial in date. This is despite the fact that Professor Hugh

Morrison, Chairman of the Department of Architecture at Dartmouth College and a leading authority on colonial architecture, declined to accept this interpretation. The *Milford Journal* of April 26, 1893, carried an article by Daniel Fiske in which he drew attention to peculiar unexplained features of what is now known as the Upton Chamber, Massachusetts.

In 1928 the parents of Malcolm Pearson purchased the Upton property, not knowing that it contained the mysterious chamber. This, when noticed, engaged the interest of Malcolm, then a young man; and on learning of Olaf Strandwold's interest in Norse relics, Malcolm Pearson drew the former's attention to the structure in 1935. Meantime an article by a clergyman of Methuen appeared in the Boston Globe in 1936, making reference to unexplained "stoneworks" at North Salem. This proved to be the Pattee property, now called Mystery Hill. Shortly after, William Goodwin was directed to Pearson by Strandwold, and Malcolm took him to North Salem. Goodwin purchased the property and erected a protective fence about it, Soon after he began to restore and study the ruins.

Goodwin became convinced that the Mystery Hill chambers must be the work of Irish Culdee monks, and devoted the rest of his life to endeavours to prove this hypothesis. The discouragement he received from archeologists whom he consulted never led him to give up his views, but he was unable to convince any reputable authority that the structures were ancient. In 1950, after Goodwin's death, Malcolm Pearson inherited the property at Mystery Hill. He was not able to leave his professional work in order to live on the site, which accordingly became subject to vandalism. To avoid further destruction he was glad to lease it to Robert Stone, the present site director, in 1950, and in 1965 Bob Stone purchased the property, which he had already opened to the public and protected from further vandalism. Since that time archeological work has proceeded, though much hampered by lack of funds, for no professional archeologists could be found to support the theory of the antiquity of the site.

From 1967 onwards Geochron Laboratories, Cambridge, Massachusetts, made a series of radiocarbon determinations on samples of charcoal obtained by James Whittall at specified levels in Mystery Hill. Copies of the letters exchanged by Robert E. Stone and Harold W. Krueger on these determinations (see Bibliography) have been deposited in the Widener Library archives at Harvard University. These carbon analyses point to periods of occupation of the Mystery Hill site extending back to the second millennium B.C. Dr. Krueger, in a report dated September 18, 1967, stresses that one of the buildings that professional archeologists have claimed to be the work of Pattee in the nineteenth century is in fact penetrated by the roots of a tree whose carbon age is determined to be





Small megalithic chamber at Mystery Hill, North Salem, New Hampshire. The entrance faces south, and the proportions of the chamber suggest its possible use in connection with observation of the midwinter solstice by means of the sun's noon shadow. Peter J. Garfall



Two methods of roof construction employed at Mystery Hill, New Hampshire. Above, corhelling, using small slabs progressively overlapped toward the center and topped by small capstones. Below, lintels spanning the entire chamber, used where large flat slabs are available, leveling adjusted by wedges at left of ceiling. Feter J. Garfall, Joseph D. Germano



Subterranean chamber at Upton, Massachusetts. It was Pearson's interest in this unexplained building that led him to Mystery Hill, and hence to Goodwin's eventual purchase and protection of that important site. Malcolm D. Pearson



Archeologist James P. Whittall II with the Mill River stele, near Boston. The inscription in ancient Iberian letters warns passersby not to loiter as the site is a burial ground. Recently a stele with a similar inscription was excavated from an ancient cemetery near Hudade do Pêgo, in Portugal.

America B.C.

1690 A.D. # 90 years. In 1975 the ruins are still considered by many to lack

archeological context, despite the radio-carbon dating.

00

Two societies have been established by interested people who believe the stone chambers of New England are ancient structures. One, the New England Antiquities Research Association, is particularly linked with Mystery Hill and was founded by Robert Stone. The other, the Early Sites Research Society, is the outcome of reviving an earlier society with a similar name established in Vermont and New Hampshire by Dr. Vilhjalmur Stefansson, Dr. Hugh Morrison, and other professional archeologists; this group is interested in all so-called "root cellars" and related structures. The Bibliography lists some documents relative to the Society's origins. Associated with Robert Stone in his work of exploring and protecting the Mystery Hill site are his wife Dorothy, their son Dennis and cousin Osborn Stone, and various local residents. A small museum and refreshment center has been established on the site for the convenience of visitors, and thus the work of protecting the site has proceeded, fortified by the enthusiasm of the group and the belief that they are custodians to a part of America's remote past.

In this belief they are certainly correct. The inscribed stones that I was permitted to study after my first visit to the site disclosed that one of the chambers on the site was dedicated to the Phoenician god Baal. The triangular tablet carrying this information in Iberian Punic script was found some years ago by James Whittall. The probability is that other chambers on Mystery Hill were dedicated to other divinities, and that the whole complex was a religious center and astronomical observatory. I alerted Bob Stone as to the probable importance of triangular stones as likely

inscribed objects, and he forthwith began a search for them.

On July 9, 1975, I obtained Bob Stone's permission to bring Professor George Carter to inspect the site, together with a party including Rene, George's wife Alberta, Os Stone, and some of Bob's assistants. George, like me, was deeply impressed by what he saw, and although he did not feel competent to judge such objects as the peculiar sacrificial table, he did sense the same antiquity as I had when confronted with the inscribed dedication in Iberian Punic to the sun god Baal.

And it was while we were examining the chamber where Jim Whittall had discovered the Baal tablet that the most important find up to that time took place. A shout from Bob Stone told us he had found another tablet in the adjacent dry-stone wall. As he brushed away the adhering dirt there came into clear view a line of Ogam script that read B-B-L. I could only conclude that this is in the same vowelless style as the Punic script and the same as the Portuguese and Spanish Ogam, and the reading was therefore to be taken as Bi Bel. that is, "Dedicated to Bel." Bel is the



One of Whittall's most important finds was this triangular dedication tablet, found in the ruins of a small rectangular stone chamber at Mystery Hill, New Hampshire, now recognized as a winter solstice noon transit temple-observatory. The inscription in Iberian characters reads, from right to left, "To Baal of the Canaanites (Phoenicians), this in dedication." Subsequently an Ogam dedication was also found by Robert Stone, showing that Bel (the sun god of the Celts) was identified with Baal of the Semitic peoples. Peter J. Garfall

Celtic sun god, long suspected (but until now never proven) to be the same god as the Phoenician Baal. One swallow does not a summer make, so we were still cautious, for Ogam-like markings can be produced occasionally by fortuitous means, though this inscription was very clearly and neatly cut.

As events quickly showed, we had the solution in our hands. Within ten days we were seeing dozens of Ogam inscriptions on another less-damaged but more remote site in central Vermont. It became clear that ancient Celts had built the New England megalithic chambers and that Phoenician mariners were welcome visitors, permitted to worship at the Celtic sanctuaries and allowed to make dedications in their own language.

8

The antiquity of Mystery Hill inscriptions could now be confidently set at about 800-600 B.C. (to judge by the writing style of the associated Phoenician inscriptions) and it was clear that Goidelic Celts were the occupants at that date, and in all probability the builders too. We all knew there would be a tough fight ahead to obtain a means of publication of our finds; and that indeed proved to be the case.

The full significance of the Mystery Hill complex did not at first appear clear, and for a while I thought there had been an initial Celtic occupation followed by a Punic phase. These problems were cleared up once we began work in the Vermont area. There were also additional inscriptions found soon afterwards at Mystery Hill, one of them showing that Celts still occupied the site as late as the century following the introduction of the reformed calendar of Julius Caesar in 45 s.c. Of this more is said later in this book. Before continuing the account of our Celtic inquiries I must turn to consider parallel studies that led us to realize that Celts were by no means the only visitors or colonists who came to the Atlantic shores of America. As has already been made clear, Phoenicians were certainly visitors to the Celtic sites, and in all likelihood were conducting affairs of their own over here. To this matter some attention must now be given.

Ships of Tarshish

Y the eighth century B.C. a group of Syrian colonists had settled the lower reaches of the valley of the Guadalquivir River in Andalusia, southwestern Spain, where they were engaged in trading for metals mined by the natives, who seem to have been mainly Basques. Eventually invading bands of Celts in ever-increasing numbers came down from the north, and by 500 B.C. they had overrun the whole region. Thereafter we hear no more of Phoenicians in this part of Andalusia. Now, however, we have found their inscriptions in America.

The city built by people in Spain was called Tarshish, and it is referred to by that name in the Old Testament. The Greeks called the city Tartessos, and from this name comes the word Tartessian, used by epigraphers to describe the special script and dialect employed by the men of Tarshish. The alphabet has been deciphered in part by Spanish epigraphers, and most of the residual letters have now been assigned their phonetic values as a result of the discovery of Tartessian inscriptions in Central and North America. The language can now be read with relative ease, for it proves to be no more than a dialectal variant of Phoenician. In fact, one wonders why the Tartessians bothered to devise their own script, seeing they could equally well have employed the script of Phoenicia itself.

From the Bible we learn that the ships of Tarshish were the largest seagoing vessels known to the Semitic world, and the name was eventually applied to any large ocean-going vessel. On the coasts of Palestine, where the ancient psalmists of Israel could watch the vessels of their Phoenician cousins plying their trade with Lebanon and Egypt, the ships of Tarshish became proverbial as an expression of sea power. On this coast the east wind was feared by the sailors in Bronze Age times because it

could blow ships out into the Mediterranean, and most of the coastal vessels were unable to withstand the turbulence of the open seas. Thus, in their naiveté as landlubbers, the Hebrews imagined that the same east wind meant disaster for the ships of the Phoenicians too. (In fact, of course, it would not.) So we find the poet of Psalm 48 expounding the power of Jehovah as such that "Thou breakest the ships of Tarshish with an east wind." Another reference to the ships of Tarshish occurs in the book of Jonah, which describes how the prophet "went down to Joppa, where he found a ship going to Tarshish; so he paid the fare thereof, and went down into it to go with them unto Tarshish." Here, too, the ship is no sooner dispatched from land than it immediately gets into grave difficulties with a tempest. The ships of Tarshish come under threatening notice also in the book of the prophet Isaiah, and by and large it is rather clear that the Tartessian ships were a source of envy or irritation to the Jews.

Tarshish was ruled by kings, as we learn from Psalm 72, kings of comparable power to those who ruled over Sheba, since both are mentioned in the same breath, and grouped with the princes of the isles, by which is probably meant the Phoenician kings of Cyprus and Sardinia.

The merchants of Tarshish were famed for their wealth which, according to Phoenician sources, they obtained by trading with the docile mining communities of Andalusia, people who (so the Phoenicians say) set little value upon the silver they extracted from the rocks of Spain. When Ezekial sings the impending fate of Tyre, he mentions the passing glory of the Tyrian fairs, to which merchants of Tarshish "brought a multitude of all kind of riches, with silver, iron, tin, and lead they traded in thy fairs."

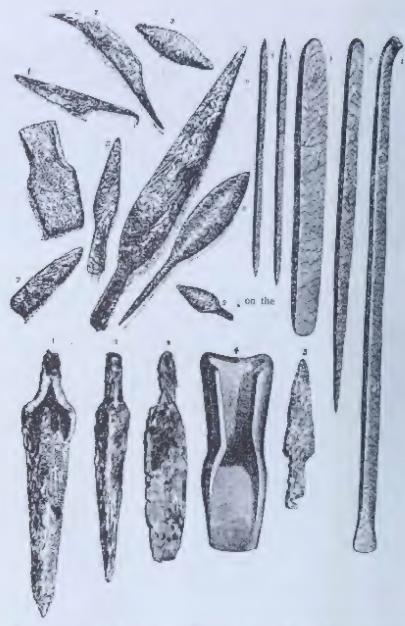
Spanish archeologists have investigated the remains of the Tartessian culture, and have found that it exerted a dominant role over southern Spain, preventing the development there of the Celtic native culture known as the Hallstatt and La Têne Iron Age. This situation even applied after 500 a.c., when the influx of Celts was so great as to change the local spoken language to Celtic.

With so intimate a contact with the Celts from whom the metals were obtained, it is not unlikely that the merchants of Tarshish may have been associated with the trans-Atlantic migration of the Celts who came to America. Indeed James Whittall, with whom I have discussed the decipherment of Tartessian inscriptions here in America, thinks that the American Celts were deliberately brought here by Phoenicians, who wanted mining communities to exploit American natural resources, and with whom they could then trade. If this hypothesis is correct, then Tartessian vessels would surely have played a major role in the Celtic migration to New England.





The Bourne Stone, recording the annexation of Massachusetts to Hanno, a Punic suffete (king or governor) who may or may not have been the same as an historical Carthaginian suffete of that name. Bourne Historical Society. Left, Malcolm D. Pearson, whose photographic skills led to the decipherment of the Bourne Stone, and whose early interest in the Upton Chamber and Mystery Hill in New Hampshire led to the acquisition and protection of the site by William Goodwin. He also discovered the Running Deer inscription and was a founding member with Vilhjalmur Stefansson of the Early Sites Research Society. Top photo by Malcolm D. Pearson

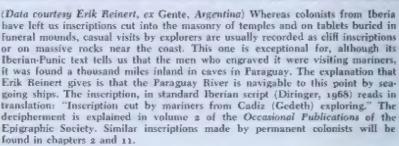


Bronze weapons found in Mound Builder sites and at other localities must represent European imports, for one of the essential metals required for alloying copper to bronze is tin, not found in North America in any form available to ancient miners. To pay for the imports of bronze weapons, Phoenician glass heads, and (probably) purple cloth, the American colonists would supply furs, bides, and raw metals, such as copper and silver. The bronze artifacts in this collection from Obio and Wisconsin conform to well-known European and North African patterns of the late Bronze Age and early Iron Age. (From S. D. Peet, The Mound Builders, 1892)



This interpretation of a sailor's life on a long voyage is the work of an Etruscan engraver. We know from the Greek writer Hesiod (about eighth century s.c.) that mariners only sailed in the summer months, and that they originally followed the constline, putting ashore each night to cook a meal and sleep, setting out again the following morning. This engraving depicts such a shore landing. By the first century A.D. Greek captains were crossing the Indian Ocean from Aden to Ceylon, and evidence from cave inscriptions implies that Libyans were already crossing the Pacific in the third century p.c. For lack of records we cannot cite European authority for supposing that Phoenician and Iberian mariners were crossing the Atlantic at either of the dates just mentioned, but it is obvious that the Mediterrangan cultural objects and writing systems could not have reached America by any other route than an Atlantic crossing. Hence we must infer that the surviving European records are defective, and that occan passage was undertaken by late Bronze Age mariners, apparently unknown to their contemporary, Hesiod. The audity of the sailors is consistent with summer voyaging in the tropics and subtropics, as also with much other evidence from Mediterranean sources. Caesar and other writers also refer to the nudity of Celts during campaigns. Thus this engraving is probably a good interpretation of ancient mariners' life at sea,





As this book is being written, very few Tartessian inscriptions have been discovered in New England, but those we have provide interesting information and show that other writings in Tartessian probably await discovery here. A few inscriptions have also been found in the region of West Virginia and Ohio, where their association with large burial tumuli resembling those of the Iberian Bronze Age point to important American colonies of these Phoenician navigators and merchant princes.

The first Tartessian inscription discovered in America is engraved on a rock on the seashore of Mount Hope Bay, Bristol, Rhode Island. In 1780 it was described and recorded by Ezra Stiles, who later became president of Yale College. Later the location of the rock was forgotten till 1874, when William J. Miller rediscovered it and made a drawing of the characters as he perceived them. Other versions, differing considerably, were made by Wilfred H. Munro (1880) and Edgar M. Bacon (1904). None of





Incised figure of high-sterned Tartessian hull, engraved on rock at Mount Hope, Rhode Island, originally discovered by Ezra Stiles in 1780. The steering oar is seen near the stern. Masts and sails are not indicated. The inscription, now severely vandalized, was photographed about 1940 by Malcolm D. Pearson, and is shown below the hull. It is believed to read in translation, "Mariners of Tarshish this rock proclaims." Fell, Rommel, and Germano; Malcolm D. Pearson

these versions is accurate or even remotely legible, the main reason for this being that other graffiti had been added over the years, and since the artists could not distinguish one script from another, their diagrams are meaningless.

It is a curious fact, but one well known to epigraphers, that modern graffiti added to an ancient inscription are almost always cut much less deeply than the ancient part of the inscription. At first sight this seems anomalous, for would not the ancient inscription be more weatherworn? The reason for the apparent contradiction is not hard to find. An ancient engraving, to have survived at all through 2,000 years on a rock that is

exposed to weather, must necessarily have been cut deeply. On the other hand, the vandals who add their names and dates in modern times are simply casual visitors who do not arrive equipped with mallet and chisel for the express purpose of leaving an enduring monument to their passage. Instead, they happen to see what a previous person has done, become imbued with a sudden desire to leave their mark also, and can find nothing more serviceable than a pocket knife. With this unsuitable implement they contrive to mutilate the original while doing little more for themselves than to leave a readable advertisement of their names as the culprits who damaged a national treasure. Skilled epigraphic photographers also know that water, when applied to an ancient inscription and allowed to evaporate, has the power of exaggerating some chemical changes that occur in rock that has carried an inscription for many centuries. The art consists in photographing the inscription at just the right degree of evaporation.

Using this and allied techniques, Malcolm D. Pearson secured an excellent photograph of the inscription, in which, with his usual skill, he has been able to accentuate the deeper shadows cast by the ancient engraving, whereas the more shallow-ground letters of the modern vandals are readily distinguishable. However, Pearson's fine photograph was severely retouched by Olaf Strandwold, and the version he published in 1948 is undecipherable (though Strandwold thought he had Norse runes

reading "There is a house over on the clearing").

It was not until 1975 that Pearson's original unretouched photograph came to my notice through the courtesy of James Whittall. Some months later at Union, New Hampshire, another inscription was discovered with excellently preserved Tartessian letters, and it then became clear that the Mount Hope inscription is also written in this style, though somewhat damaged by time, vandals, and erosion. Under the outline carving of a hull appears a single line of Tartessian Punic, reading from right to left, to yield

VOYAGERS FROM TARSHISH THIS STONE PROCLAIMS.

The script cannot of itself be accurately dated, but a likely estimate would perhaps be about 700 or 600 B.C. The voyagers were probably not explorers but rather merchants trading with the New England Celts who, by that date, would already be well-established fur trappers, and very likely also mining precious metals on those sites where ancient workings have been discovered.

The periodic arrival of Phoenician ships on the New England coast is attested by the Ogam inscription on Monhegan Island, off the coast of Maine (page 58). It is obvious that the flat-topped rocky islet would

not have been set aside for the loading and unloading of Phoenician ships were they not regular visitors to America, with a predictable timetable of ports of arrival and departure at expected dates. It is also clear from the fact that the Monhegan inscription is given in the old Goidelic tongue of the New England Celts, that it was primarily intended as a notification for native American Celts who had goods for sale or exchange, to inform them where to bring their merchandise in order to be sure of meeting with customers from Phoenicia.

These inscriptions, therefore, suggest that organized international maritime commerce was well established in the late Bronze Age, that North American ports were listed on the sailing timetables of the overseas vessels of the principal Phoenician shipping companies, and that the same information was circulated to customers in America. As Monhegan Island lies some ten miles offshore it seems likely that the whole island was a trading station used by the Phoenician captains, with some organized ferry system for the transfer of goods to and from the mainland.

Over the four centuries that have gone by since European ships began to ply the New England coast in the sixteenth century there have been countless wrecks on the treacherous rocks and shoals, especially during stormy or foggy weather when visibility is limited. The hulls of these illfated vessels still lie on the bottom.

What, then, became of the many ships of Tarshish that once frequented these same coasts from 2,000 to 3,000 years ago? Certainly some, probably many, must also lie on the bottom, for sea travel was more dangerous in ancient times, and the storm waves could surely wreak more havoc upon the timbered hulls of Phoenician galleys than on the steel plates of modern ships. In particular there must have been many mishaps around Monhegan Island itself, and between Monhegan and the mainland, when occasional capsizes of lighters transferring cargo must inevitably have occurred. Archeologists who point to the absence of Phoenician glass and Iberian pottery from American sites should perhaps try looking in the places I have indicated on the basis of the inscriptions reported in this book. The shallow seabed around Booth Bay Harbor is where I would recommend scuba divers to start the search. Here the fleets of swan-necked galleys must often have ridden out a storm and dropped many an item overboard, either by accident or intention.

In the sixth century B.C. shipping was much more highly organized than we have hitherto believed. This is illustrated by letters that have been discovered written on metal sheets (laminae). The style is terse, sometimes legalistic as if drawn up by lawyers—and indeed this is very probable, for the signatures of the writers or consenting parties to an agreement appear in quite different handwriting from the body of the text. Because of their simplicity and directness, and because the matters referred to are

transactions that we can readily understand, the decipherment of texts is made much easier than in the case of religious scriptures, where the subject matter was probably already obscure enough to contemporary readers, let alone those separated as we are by 2,500 years from the time of their composition.

Thus it was that in 1973 I was able to decipher the following letter, written on sheets of gold leaf, by Hiram Lord of Tyre. The language is Etruscan, as he is writing to a king of Lavinia (spelled *Luvenia* in the letter), near Rome. The letter was excavated at Pergi, Italy, in 1964. The text shows that the Etruscan language is a member of the Anatolian group of tongues, related thus to Hittite and Urartian. Dr. Reuel Lochore, a specialist in these tongues, has pointed out (1975) that many features of Etruscan life imply the probability that their tongue would have an Anatolian character, but that this letter is the first demonstration of the truth of that inference.

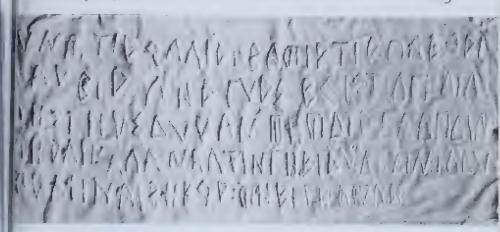
The script is that used in the Greek states of Italy and Sicily and in Etruria itself, a minor variant of the Phoenician alphabet in which vowels are introduced where the clarity of the text requires it. The date of the script is estimated by Italian archeologists as about 550 B.C., an estimate that is confirmed by the content of the document, for Hiram reigned from 553-533 B.C. The full details of the decipherment and the analysis of the vocabulary and syntax will be found in my original paper (1973), since reprinted in the publications of the Epigraphic Society. This particular letter deals with a shipment made from Tyre to Italy, and shows that extremely valuable cargoes were entrusted to the Tyrian vessels, in this case almost certainly one of the ocean-going or so-called Tarshish class.

FOR THE GODDESS, WITH THE PRAYERS OF HIRAM GREETINGS*

FOR IN AS MUCH AS his ambassador is bringing with all dispatch from Tyre a statue of *June-of-the-Stars* to the Palace of Thesarias Velianas, situate in Luvenia:

THIS IS A GIFT from a land far away for you to present to the priestesses. It is made of solid gold.

Have them measure its weight. The aforesaid man, Ambassador Qurvar, is to bring back to me a written declaration of the weight of the image, duly certified by them.



MID AH MAISHKO D: MHBATHO DANI:

MH PAIKADA WADTIN THEBION DHOIM:

田PKH OPITITAPOKAN: BAS K PMESTINHO: BATADO K: SES X: TYPNBAI APA NHTVS HTIK BAMH DOKHIYNBAIDA ST KH: BAMBISIDBAPITIN: IPIK H: BAMHP BK APITHBIN SISHNACAS I K AVP! IMBIN 本i AMTAN SIM TATIMTAPOK: BINIKH EN: SANID! KIO HI: CAIBITAIT:

Lead lamina of Alcoa, east of side 1 (above), and transcription of both sides (below) of Nara's agreement with the Greek merchant Makarios to take him from Cadiz to Tangier, thence to Oran, where he is to transship to another vessel on his voyage to Tyre, in Lebanon. About 500 m.c. See page 105 for translation. Peter J. Garfall

^{*} In his commentary on this decipherment Lochore (1975) points out that it was a convention at this period for monarchs to communicate under the pretext of addressing one another's gods.

If in response to my inquiry a just measure is reported upon his return, then I, Hiram, will reward the man from my treasury.

But if the weight be too low, then by that amount it has been diminished I shall myself fine the man for his wickedness in desecrating the sanctuary of Celestial Juno over there. For such profanity to the goddess he shall relinquish his profit to me for the reimbursement of their treasury.

It would appear from this letter that the ambassador Qurvar must have been the owner of the vessel, since reference is made to his profit, which would have to be derived from the charge levied upon Hiram for carrying and delivering the cargo. The fine, as the letter makes clear, in the event of noncompliance with the terms of the contract, would be levied in addition to forfeiture of his normal profit.

A similar ambassadorship may well have been accorded any voyager of good reputation and adequate financial resources who happened to announce that he was about to visit a faraway land. This would explain why the Chinese Han Court records, for example, refer to Roman embassies in the second century A.D., though the Roman records themselves make no reference to such ambassadors, The validity of the Han Court records is unimpeachable, for the recorded dates and the name of the Roman emperor as given in the Chinese archives precisely match the western records, as I have pointed out elsewhere (1974).

Here now is a different type of shipping contract between a Greek merchant named Makarios and a skipper of Cadiz named Nara, both of whom have signed the contract on the back. It was found near Serreta de Alcoy, Spain, and consists of a lead lamina written on both sides. It is a curious fact that even at the early date its script implies (about the sixth century B.C.) the conditions less favorable to the hirer are set out in smaller print, on the back of the contract! The alphabet employed here is Greek, but the language of the contract is Phoenician. The words are abbreviated, and Greek influence is evident in the frequent insertion of vowels, because a native Phoenician would write only consonants. There was a Greek colony at Rodi in Catalonia to the east of Andalusia and it is possible that both the merchant Makarios and his lawyer may have been Catalan Greeks. The skipper's address is given as Cadiz, Andalusia, and for that reason the contract is drawn up in the Phoenician language, that of the home port of the vessel itself. Previous attempts at translating the document have failed for the very simple reason that the attempts were made by persons unacquainted with Semitic tongues, mistaking the phonetic values of several signs, and supposing that the back of the tablet is the beginning text. It is small wonder that the only outcome of those efforts was the conclusion that the lamina is written in an unknown tongue not belonging to any European family of languages. Despite this, one decipherer contrived to extract a few phrases that he translated as

"O Horror, O Horror!" a result that led him to conclude that the tablet deals with the soul's adventures in hell after death!

In point of fact the document is an exceedingly businesslike agreement set out in terse, abbreviated, but nonetheless readily comprehensible Phoenician, using words that are still to be found in all literary Arabic dictionaries to this day. With the original spelling of the place names shown in parentheses, it reads as follows:

A CERTAIN GREEK, his destination Tyre (Tyr), being desirous of traveling overseas by ship to Tyre, NARA hereby contracts to sail initially to the Cape at Tangier (Tingis) on the opposite shore* and then to proceed on the

voyage with all dispatch to Oran (Uran).

AND IN DUE CONSIDERATION of the faret this is the token, the entire balance outstanding in either hard cash or in merchandise of equal value to be on hand when the time comes to set out from Cadiz (Gedir), either on that (same) morning or on the previous evening, such (equivalent merchandise in lieu of balance of fare) to be kept separate: the merchandise is to be taken on board in an orderly manner, placed deep in the hold, under covers, protected by canvas against damage (from weather), and permanently marked as may be necessary "Lot 160, Tyre, Lebanon." §

Whatever rich profit may subsequently accrue by good fortune** is from the outset renounced by the Greek: and whatever may remain (unsold) on board is also renounced by him, in accordance with this clause of the con-

Upon arrival at the destination the token coin is thereupon to be made over to Nara as his profit, to retain absolutely or dispose of in Morocco (Magarok) as he may see fit, as compensation for his labors in assisting the Greek towards his destination, and in accordance with his desires

> (Signed) Verily NARA Makari(ou) his signet††

It is apparent that Makarios would have to engage a series of skippers before he would reach Tyre if each skipper limited his range to a few hundred miles, as Nara did. This vessel, then, would not be a ship of the Tarshish class, but some smaller vessel of a value such that a single owner could afford to operate it, Nara doubtless being both owner and skipper.

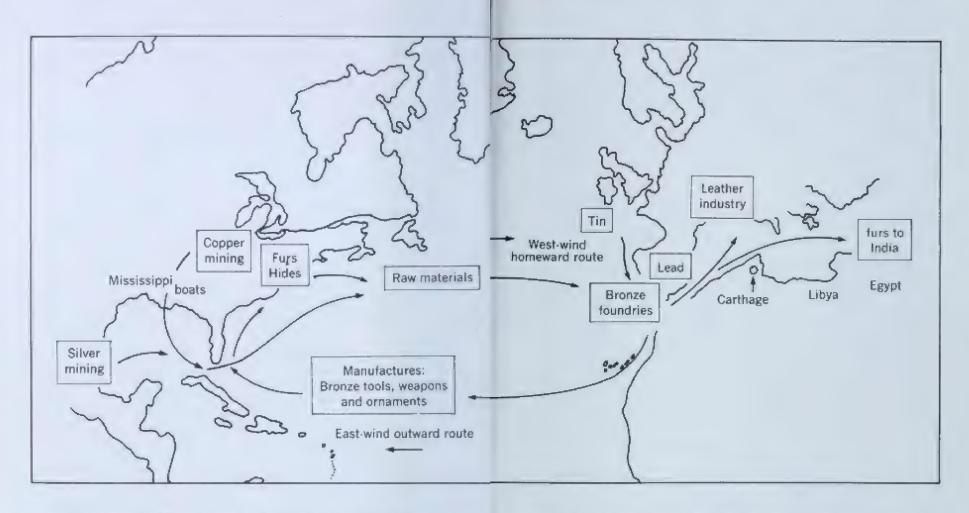
† The fare as far as Tangier.

^{*} On the opposite shore of the Straits of Gibraltar as seen from Cadiz.

[§] Written Tyr Leb. In the Phoenician manner, the numeral is written 20 + 20

^{**} From the sale of the merchandise delivered on board as payment for the balance of the fare.

^{††} Makariou is the genitive (possessive) case of Makarios.



Inferred transatlantic trade patterns after 500 n.c. and until 179 n.c. The conquest of Egypt by Darius I in 525 n.c. and the successive rise of the Greek and Roman empires effectively closed the eastern Mediterranean to Carthaginian shipping. Carthage retaliated by closing the Straits of Gibraltar to all European mariners. Under the guise of supposed Spanish and North African trade, Carthaginian merchants exploited the North Atlantic resources, bringing to Cadiz the copper of the Celtiberian settlements of North America, and the tin of Cornwall, to provide the raw materials of a bronze industry, whose products were re-exported to Britain, Gaul, North America, and West Africa. The Celts of New England obtained a share of the American imports by supplying furs and

hides, both of which the Carthaginians re-exported to the eastern Mediterranean as supposed products of Gaul, the furs even reaching India. By the time the Romans conquered Spain and Carthage they had adequate alternate sources of these materials, and they took no interest in overseas shipping, having no merchant navy. The North American trade dwindled, the last phases presumably being operated by the maritime Celts of Brittany until their conquest by Caesar in 55 B.c. For 400 years after the Battle of Actium in 31 B.c. the Romans had no navy, since they had no rivals, and the memory of America apparently was lost. By 200 A.D. geographers believed that a voyage westward from Spain would lead to India and China, and this was the inheritance of Columbus.

These documents show that international maritime commerce was conducted in an orderly manner in the sixth century before Christ, and that the merchants and skippers were bound by legal contracts to fulfill certain obligations to each other. From the fourth century n.o. we have much more evidence of this kind, including the case notes of a series of lawsuits in Athens initiated by Demosthenes against various skippers and shipowners who either broke a contract or broke a law. Examples of the former relate to incidents where a skipper sold grain at a market other than that to which it was consigned, thereby reaping a black-market profit for himself; and a case of the latter concerns the illegal importation of Black Sea wine into Attica by way of a secluded bay where smugglers could avoid paying the import duty levied by the Athenian Boule on foreign liquor.

Foreign maritime commerce, then, was at least as orderly and nearly as complicated in ancient times as it is now. We must not let the chaotic conditions of life in the post-Roman era mislead us into thinking that orderly overseas trade was unknown before the middle ages.

But, you may protest, all this evidence comes from the relatively sheltered and closed Mediterranean Sea. How can you apply these conclusions to the vast context of oceanic travel? Show us one scrap of evidence that men in the pre-Christian era could cross oceans by ships, and show us the ships that would be strong enough to make such crossings.

To this justifiable protest my brief reply is that we have already done so in technical journals and books, where the evidence is set out at considerable length by a number of different investigators.* To deal with so complicated a subject in any detail is beyond the scope of this book, but the chief points can be noted, together with information on where you can read more about the subject. Here is a set of key questions to which you may well expect concise answers:

- (1) Are there records of authenticated voyages across an open ocean successfully performed in ancient times?
- (2) Do the voyagers or their biographers indicate how such transoceanic sailing was carried out?
- (3) What navigational instruments did ancient voyagers use? Did they understand latitude and longitude and realize that the earth is spherical?
- (4) What kinds of ships were used on ancient transoceanic voyages?

And here now are my very brief answers to these inquiries: Yes, we have well-authenticated records of actual voyages across the open ocean.

One of the first for which documentation exists is that of an expedition by an emperor of the Han dynasty of China in 140 B.C. The Emperor Wu, accompanied by many of his court officials, led the expedition from the Chinese capital of those times, Ch'ang An, in northern China. The ships first sailed 3,000 miles south, to pass through the Straits of Malacca, and then rounding the Malayan peninsula, they set their prows northwest to cross the 1,200 miles of open ocean and land at "Huang-Chih," identified by modern Chinese scholars as Conjeveram, near Madras. Here the emperor traded his cargo of gold and silk for precious gems, pearls, and rock crystal, returning home by the same route. The historian Pan Ku (2-92 A.D.) does not explain how the voyage was carried out, but it is believed that the seasonal monsoon winds were used. They would favor passages in both directions, provided the correct time of year was chosen for each start. Subsequent civil strife in China disrupted the trade route thus established and China withdrew from the outside world for nearly three hundred years.

Up to 30 A.D. the Greek shippers who operated the eastern trade routes for Mediterranean markets required three years for a round voyage to India and back, following the tortuous coastline of Asia, as Alexander the Great had done when he returned to Babylon from his Indian expedition. About 30 A.D. an Alexandrian skipper named Hippalos discovered how to use the monsoon winds to cross the Indian Ocean in the space of only three months. He returned from India in less than a year, thereby revolutionizing the trade routes. Within a year upwards of 100 ships were setting out for India each season, to return to Egypt laden with silks, spices, and gems in return for Roman gold. The vastness of this luxury trade led Pliny the Elder to deplore the flight of gold from Rome, and the countless Roman coins found in India show that his concern was well founded. Soon Ceylon and eastern India were added to the trade areas, as again the coinage shows. By 166 a merchant ambassador named Alexander had crossed the Bay of Bengal, to retrace the route of the Wu emperor, arriving at the court of Huan Ti, bearing gifts from Marcus Aurelius. These, and other similar voyages, did not follow the tedious and protracted route of the continental coasts, but struck boldly across the open waters. There can be no doubt that the merchant ships used the seasonally reversing monsoon winds to aid their progress, for no ship (other than naval vessels) could afford to carry a crew of rowers and yet still remain solvent.

As to the navigators' knowledge of the shape of the earth, and of latitude and longitude, this was well based from the time of Eratosthenes onwards. In 239 B.C. Eratosthenes had calculated the circumference of the world as being about 28,000 miles, an error of excess of only 13 percent. This means that the degree of latitude was mistakenly thought to be

^{*} See, for example: Barry Fell, Life, Space and Time (Harper & Row, 1974), and Introduction to Marine Biology (Harper & Row, 1975); George F. Carter, "Egyptian Codd Sorkers and Exploration in the Pacific"; and Sentiel Rommel. "A Torquetum of 232 E.C.", both in Occasional Publications of the Epigraphic Society, vol. 2, 1975.

some 60 nautical miles instead of 60 miles, its true value. This error was not so great as to forbid successful ocean crossings with a predicted landing point. Longitude was calculated by dead reckoning, a method that continued until long after the time of Columbus. For lack of a magnetic compass, bearings could not be taken in cloudy weather, but the stars and the sun and moon provided data at all other times. The astronomical observations were set into an early type of astrolabe which, combined with the cross staff for measuring the elevation of the midday sun or other celestial objects at the time of their meridional passage, vielded a direct reading of latitude. By 150 B.c. a mechanical computer had been added to the navigational equipment, which could now perform the operations of an astrolabe merely by cranking bronze gears and matching dials. The remains of one of these instruments now rest in the National Museum in Athens, recovered from an ancient wreck by divers. The manner of operation of these highly technical instruments is now known to us and may be found by consulting the journals that deal with the history of science.

HO

The discoveries of the Greek and Roman*inventors did not just suddenly arise de navo. We know that many instruments had been developed by earlier navigators, and that each generation improved on the work of those that had gone before. Maps of the constellations show that early voyagers were well aware of the fixed reference point in the heavens, the pole of rotation of the stars, even though in those days no bright star marked the position of the pole. It is a mistake to think that the so-called age of navigation (of Vasco da Gama and Bartolomeo Diaz and Christopher Columbus) was something entirely new, ushered in by the circumstance that around 1400 A.D. a bright star of the constellation Ursa Minor moved over the position of the pole as the Earth's axis slid in accordance with precession. As we now realize, ancient navigators knew always where the true pole is located even when there was no polestar, and after the third century B.C. we have maps showing the position of the celestial south pole also, proving that navigators were then crossing the equator in the southern parts of the Pacific Ocean.

As to the relative sizes and strengths of ancient ships in comparison with those used by Columbus, medieval Europe of 1492 was in a state of nautical skill that the ancients would have regarded as benighted. Columbus's whole expedition could mount only 88 men, carried on three vessels of which two were only 50 feet in length, about the size of a small Boston fishing boat. Contrast that with the Pharaohs of the Ramesside dynasty, 1200 B.C., who could mount expeditions of 10,000 miners across the Indian Ocean to the gold-bearing lands of South Africa and Sumatra. Julius Caesar's triremes carried 200 men, yet he found his ships outmatched in size, height, and seaworthiness by those of the maritime Celts.

4163943414317 183419441014198141 41421019497W14492H9&1949470&1XX1 99881414494179woyrowpr1w9714~104 1960121X400211472429491410441214 19914441492199341647644470444 4304/W4/3&914&/A9A>X1&/4/09A~4 49×194014~44×4×1744~×94414644414 X114~104414~10X~119A

Ships of Tarshish

The discovery of the so-called Pedra Lavrada inscription in Phoenician script engraved on stone occurred in Parahyba Province, Brazil, in 1886. A translation by Da Silva Ramos was published in French in 1939, and the following is an Eng-

"This stone monument has been cut by Canaanites of Sidon who, in order to establish trading stations in distant lands, mountainous and arid, under the protection of the gods and goddesses, set out on a voyage in the nineteenth year of the reign of Birum [i.e., 536 s.c.] our powerful king. They departed from Ashongaber in the Red Sea, after having embarked colonists in ten ships; and they sailed in company along the coast of Africa for two years. Subsequently they became separated from the flagship, and carried far away from their companions. Ten men and three women arrived here on this unknown coast. Of whom I, the unhappy Metu-Astarte, servant of the powerful goddess Astarte, have taken possession. May the gods and goddesses come to my aid."

This document, of which the original stone inscription is now apparently lost, has been declared a forgery by Professor Frank Cross of Harvard University. On the other hand, Professor Cyrus Gordon maintains its genuineness, and has issued a more recent translation. Since hundreds of obviously genuine inscriptions found in the United States have similarly been declared to be forgeries or marks made by plows or roots of trees, by persons who have not studied ancient inscriptions. there is no obvious reason at this time for doubting the authenticity of the Parahyba text.

Celtic Sea Power

9

Celtic Sea Power

HE rise and fall of Celtic sea power has been so strangely neglected by most historians and archeologists as to prompt much skepticism when first I began to report Celtic inscriptions in America. "I can't say I ever heard that the Celts were seafarers," was a typical comment. Those who recall that Julius Caesar described the ancient Britons as mostly naked savages, wearing only iron torques about their necks, sometimes with the skin of a beast cast over the shoulders, think of the Britons as having nothing better than one-man coracles for crossing water.

Nothing could be further from the truth. In fact, most of Book III of Caesar's De Bello Gallico is devoted to the greatest naval battle he was ever called upon to mount. And his adversaries? None other than the Celts of Brittany, whose fleet was swelled by the arrival of a flotilla they had summoned from their allies in Britain! The combined Gallic and British naval armament comprised an immensely powerful force, numbering, so Caesar tells us, no less than 220 ships, all larger than and superior in construction to those of the opposing Roman navy under Admiral Brutus.

These Celtic ships, Caesar says, were so soundly constructed that they could outride tempestuous or contrary winds upon the very ocean itself without sustaining injury.* It is clear that these fine vessels, which towered over the Roman galleys, had the capability of crossing the Atlantic Ocean vasto atque aperto mari, "upon the vast open sea," as Caesar indicates.

But who were the Celts to which Caesar refers, and how did they come to be in possession of such naval might? To answer that question, let me retrace the steps of my own inquiry into the background of the Roman observer's commentary on the events of 55 s.c.

After receiving word of my identification of Ogam inscriptions at various localities in Portugal and Spain, Jim Whittall began to make plans to return to the Iberian peninsula to follow the new leads in the Douro river valley and other sites that seemed likely to add to our understanding of the origin of the New England Celts. Just before his departure he drew my attention to some standing stones in Brittany that seemed to him to have inscribed markings much resembling one of the classes of Ogam script given in the Book of Ballymote and a newly discovered Ogam inscription in Newfoundland reported by Dr. Robert McGhee, professor of archeology at Memorial University.

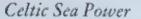
Jim's suspicions were well founded, and to my surprise I now had before me a series of Goidelic inscriptions from Vendée, apparently the first to be recognized in France. The translations disclosed funeral epitaphs of Celts of the Q-group, for the formula "son of" is rendered on the stones as M-C or M-Q, the vowels omitted as in the Iberian and New England examples (differing from the Newfoundland inscription in this respect, and suggesting that the voyagers who cut the Newfoundland record did so several centuries later).

The Vendée stones were originally discovered in 1904, dispersed over an area of about one square kilometer, on a farm called La Vaux, near Saint-Aubin-de-Baubigné between Poitiers and Nantes. They range in size from two to nine feet high and, in addition to the Ogam lettering, carry images of men and horses as well as the rounded markings called cupules (which are also found in New England). According to my decipherments the gravestones gave the names and fathers' names of some individuals of whom at least one had died through violence (Sabal was slain), and at least one appeared to be a mariner (M-C F-M-L, which I read as Son of the Pirate).

I wondered who these hitherto unsung Celtic buccaneers might be, and began to see if they could be traced. As a first possible trail I consulted with numismatists as to what ancient Celtic coinage might have been discovered in the Vendée, because ancient coins often indicate by their design the principal activities of the people who used such coins. As, however, Gallic coins before the age of the Caesars nearly always are imitations of the gold staters of Philip III of Macedon, all I was able to learn from the ancient coins was that the Vendée region had been occupied by the Veneti tribe and their allies. In the area of the La Vaux farm it appeared that these allies were called the Namnetes, after whom the city of Nantes takes its name. It seemed at first as if this inquiry had been of little help.

Guide books to the Vendée region of Brittany were my next quarry, and from these I learned that such French archeologists as Ernest Desjardains have come to the conclusion that the probable shape of the

^{*} De Bello Gallico, books III, XIII, 1.



The discovery of the West Indies, perhaps around 800 n.c., is here recorded in Ogam script, and old Celtic language, by Mah (or Maho), a Celtiherian sea captain who left this inscription cut on a rock at Barouallie, Saint Vincent Island, in the southern Antilles. From above downwards it reads S-L M-B Ia-R-G-H N-S Io-H-M-L-K, or, with vowels inserted, Seal Maho Iargh-Innis iomalach ("Maho discovered this remote western isle"). Slightly restored, from a photograph originally obtained by Thomas Huckerby in 1013. Malcolin D. Pearson

coastline of Brittany in classical times was such as to suggest that Caesar's naval battle with the Celts may have taken place in the marshy estuary of the River Loire rather than at Quiberon Bay, fifty miles further north, where tradition has it. If the inferences of Desjardains are correct, then the naval battle could have occurred within the tribal territory of the Namnetes, allies of the Veneti and presumed occupants of the land where the La Vaux inscriptions had been discovered. This hint was enough to send me to Book III of Caesar's commentaries, and hence to the eyewitness account Caesar has given us of Celtic shipping in his own time.

Now although I belong to a generation that read Caesar in high school it so happened that in my sophomore year Book III of *De Bello Gallico* was not prescribed. Unfortunately so in my opinion, for as now became apparent we had missed out on one of the most informative accounts of ancient seamanship to be found anywhere in the classical literature.

So I now learned to my surprise that, unlike the Gauls of the interior, several of the tribes that inhabited the coastal lands of northern France were skilled sailors whose chieftains were united in a maritime alliance under the leadership of the Veneti of Brittany. Caesar lists these maritime Celts, and they include the Veneti themselves of Armorica, together with their neighbors the Curiosolites of the Channel coast, the Venelli of the Channel Islands and the Cherbourg region, the Namnetes of Nantes, and further south the Pictones and Santones of the Bay of Biscay coastlands, as well as the Lexovii of Normandy. Caesar further mentions that when the battle was looming up, the Veneti also summoned allies from among the tribes of Britannia. These, then, were the Celts whose combined resources placed a fleet of 220 ships off the estuary of the Loire, ready to do battle against the might of Rome early in the summer of 55 B.C.

And what ships they were! Even Caesar, hard-boiled man of action as he was, waxes almost lyrical as he describes the splendid fleet of swan ships, high-prowed and graceful, that now rounded the headland to close in upon the Roman galleys in the roadstead below the island where Caesar was to watch the sea fight.

Whereas the Roman triremes and biremes lay low in the water, deep-keeled and helpless in shallow waters, the Celtic ships towered high above them, on flat keels that made them maneuverable in the estuary. Although a keel prevents a ship from drifting before the wind (making leeway), it is not in fact a necessary feature; no one denies the ocean-going capability of the Viking ships, yet their exhumed remains show them to have been flat bottomed. Hence there is no need to doubt Caesar's assertions.

The Celtic vessels had tall masts whose yards and cordage carried sails sewn from beaten hides, their leather far more serviceable in the rough

n6 America B.C.

Atlantic storms than the Egyptian linen of the Roman vela. These were ships propelled solely by wind and by the skilled seamanship of skippers who knew how to harness the air currents to their will, even sailing into the wind, to Caesar's bewilderment. Because no Celt would demean himself by rowing an oar, the thwarts on which a Roman skipper would expect to seat his galley slaves were replaced in the ships of the Gauls by far stronger and better chosen beams. These were ships bound firmly against the buckling action of ocean rollers by iron chains,* where the Roman galleys had only ropes to tie the timbers together. The Celtic anchors were made entirely of iron, a detail which (since Caesar mentions it) makes us suspect that Caesar's own ships may still have been using the wooden-fluked stone anchors that they had copied from their former Carthaginian enemies.

Because of their superior size and height, mariners on the Celtic ships could cast their arrows and spears downward to the decks of the hapless Roman galleys beneath. The armament of iron chains protected the larger ships from being rammed by the Roman skippers. It was midday when the two fleets engaged, and the disadvantage of the Romans was at once evident. They were outnumbered and outweighed, despite the fact that a Roman trireme would carry 200 men.

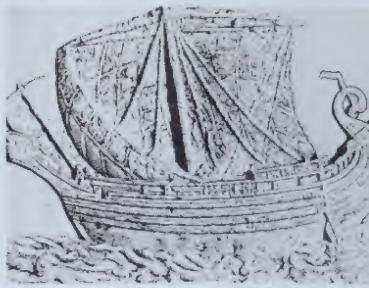
In this dangerous situation the forethought of Brutus had seen to it that an appropriate secret weapon had been taken aboard the Roman ships. Knowing themselves to be poor sailors, no match for the Carthaginians during the Punic wars, the Romans had long ago invented the grappling iron to lay hold on the enemy so he could be boarded and defeated as in a land engagement. Now again Roman military genius came to the aid of naval mediocrity. A sharp, hook-shaped device called a falx

* Hypozomata, as the Greeks called them.

Libyan ships employed oarsmen as well as sails, and could therefore journey in any direction, irrespective of the wind. The upper picture, from an ancient Libyan mosaic, shows the mariners nude, indicating that voyages were only performed in the summer season, as was also the custom among the ancient Greeks.

No detailed picture of an ancient Celtic ocean-going ship has yet been discovered, but from the account of them given by Julius Caesar we can recognize most of the characteristic features of Celtic ships in the bas relief of a Tartessian ship found in Lebanon. Save for the steering oar near the high stern (to the right of the illustration), there were no oars, and the ship relied upon wind power, utilized by skillful adjustment of the yards carrying the heavy leather sails. Caesar notes that the Celtic ships were able to travel on the open ocean, and were strong enough to withstand tempest and high waves. He records that the Roman galleys of his own fleet were much inferior to the vessels of the great Celtic navy that gathered to attack the Romans in 55 n.c. Peter J. Garfall, Gerald Heslinga









Museum seminar on ancient voyages, 1974. Fell with model of early type of astrolabe, variable latitude sundial (to right), cross-staff for taking latitude (foreground), and plexiglas working model by Rommel of Tanawa or Torquetum (left). Wood models by Peter J. Garfall, from drawings by Fell, based on Libyan cave inscriptions of about 232 B.C.

Portion of mechanism of analog computer of sailing ship, about 150 s.c., found on seabed off Greece. The bronze wheels are toothed to drive other wheels after the manner of a mechanical clock, giving the latitude, time of day, and positions of stars. National Museum, Athens.

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had been devised and taken on board in advance in large numbers. It was attached to a long line. The *falces* were hurled into the rigging of the Celtic vessels, after which the Roman oarsmen drove ahead while the steersman turned his pintle to veer away. The tautened *falces* sheared the stays and wrought havoc with the Celtic cordage.

Faced by the certainty of being outmaneuvered by this new strategy, the Celtic admiral (whose name is not given) ordered his ships to withdraw from the engagement. At this juncture nature came to the aid of the Romans. The wind suddenly dropped, leaving the Celtic fleet becalmed without means of propulsion. Admiral Brutus seized his chance, ordered the grappling irons thrown, and the battle now reverted to the Romans' specialty, hand-to-hand combat on stationary decks. The entire Celtic fleet was destroyed or captured while the Romans still had 80 serviceable ships, with which Caesar later, in September of 55 s.c., carried the war across the Channel to Britannia.

There is no further mention of British or Gaulish naval vessels in Caesar's commentaries, nor does Tacitus in the century that followed give any space or consideration to native naval might. It seems that the battle against the Veneti was the end of Celtic sea power in classical times. Except for periodic truculence by British chiefs against Roman economic exploitation, for the most part the Celtic aristocracy willingly adopted Roman manners and luxury under the sweet persuasion of competent governors; and so the Celtic lands settled down to four centuries of relative prosperity and peace. By the time the Saxon pirates appeared off their eastern coasts, the Britons had forgotten their seamanship as well as most of their martial arts, and ruin soon followed, ushering in four more centuries of ignorance and misery.

Across the Irish Sea, however, lay a Celtic land that had never known the Romans as conquerors. It is true, as Tacitus relates, that Agricola contemplated adding Hibernia (as he rendered the name Ibheriu) to the empire, thinking thereby to extinguish the last sparks of nationalism among the Britons of Britannia, who would no longer gaze with envy upon the Irish visitors occasionally to be seen in British ports aboard the ships of merchants engaged in the Irish commerce. Agricola also welcomed to his governor's mansion at least one Irish king, thrust out by rebellious subjects, and the Roman's hospitality was candidly based on his intention to establish a pupper administration under Imperial protection. But the uproar in Caledonia that soon after ensued, followed in turn by a recall to Rome, prevented his accomplishing this end. Soon afterwards Agricola fell victim to the envy of Domitian, succumbing to a mysterious illness which, the Roman public did not fail to note, coincided with a new health plan instituted by the palace physicians.

The independence of Ireland was thus maintained until the rescript of Honorius withdrew the legions from Britain to defend the Eternal City itself, by now facing the hordes of barbarians that broke upon Europe in the fifth century A.D. No sooner was the Pax Romana at an end than fleets of Irish raiders (scatti) began to ravage the western shores of Caledonia, later to settle there and still later to fuse with the Pictish Celtic tribesmen, establishing the kingdom of the Picts and Scots. Other Irish scatti crossed the Irish Sea to Wales, the Feni of central Ireland giving rise to the Gwynedd in North Wales, and the Desi of southern Ireland to the Dyfed of South Wales. Still later these Irish colonists were to be expelled by the P-Celtic Cymru, leaving behind their Ogam monuments in the Gaelic tongue.

Obviously none of these sea crossings could have been performed in coracles, so Ireland evidently had either retained, or subsequently acquired, a fleet and sailors to man her ships. Similarly the fleeing Britanni of Cornwall, as the Saxon invasions grew more serious, took ship to Armorica, there to join the Celts of seagirt Brittany. By the seventh century Irish and Breton sailors could look to the western ocean once more, as their ancestors had done a thousand years before, as a possible means

of access to lands more peaceful than ravaged Europe.

The illustrations in the manuscripts, however, show that the Irish vessels of the dark ages and medieval period were little more than enlarged coracles, made of a framework of wood, over which hides were stretched, in the manner of a kayak large enough to carry six or eight men. A relic of paganism is apparent in the bull's skull on the prow, countered by a Christian cross in the stern. Such fragile vessels may have made channel crossings in calm weather, but it seems unlikely that so stormy a sea as the North Atlantic would offer safe passage to any so foolhardy as to seek it. The Irish monks preserve a tradition that one of their number, Saint Brendan, crossed the Ocean to discover sundry marvels.

Whether there be truth or not in the Irish tradition of Brendan's voyage to the westlands, we appear to be on the verge of finding American relics of some such later phase of Celtic seamanship, to judge by Professor Robert McGhee's newest find, mentioned earlier in this chapter. Add to this the illuminating contributions of Dr. T. G. E. Powell (see Bibliography) of the Department of Prehistoric Archaeology at the University of Liverpool, and we begin to sense a developing image of yet earlier Irish or Goidelic exploits upon the great waters. Let us now attempt, however hesitantly, to turn the clock backwards a thousand years before the Saxon invasions.

The city of Tarshish, whose sailors occupied a commanding role upon

the ocean in the far-off days when the Hebrew prophets foretold the doom of Tyre, was itself destined to fall victim to Carthaginian envy. The Guadalquivir valley was overrun by Iberian Celts, doubtless with the connivance of Carthage, and the Tartessian merchants now paid imposts to Punic Cadiz. No longer could the Tartessian allies, the Greeks of Catalonia, make the passage through the Straits of Gibraltar, save with the permission of Carthaginian sea lords, sparingly granted. It is believed that this change occurred about 530 B.C.

Thus the middle part of the sixth century B.C. would seem to be the latest possible date for American settlements here attributed to Tartessian inspiration or leadership. If tradition is correct in reporting the actual destruction of Tarshish in 530 B.C., then the Mount Hope inscription in Rhode Island can be of no later date.

The Iberian Punic dedication tablet found in the temple of Bel at Mystery Hill refers to the god (or perhaps to the dedicators of the tablet) as "of Canaan." The name Kana'ni (Canaanite) was used to refer to themselves by both Carthaginians and the Lebanese Phoenicians of Tyre and Sidon. Does the Mystery Hill inscription mean, then, that it was a dedication made later than 530 B.C., by Iberian visitors under the cultural domination of Carthage? I suspect so. By the same reasoning, we are obliged to date it no later than about 146 B.C., when Carthage in her turn fell under the onslaught of Rome. Thereafter no ships could be expected to reach the Americas under Punic sponsorship.

What now of the Manana islet inscription, near Monhegan Island, which I have translated as an Ogam Celtic notice reading Cargo platform for ships from Phoenicia? The Ogam alphabet used is one that differentiates the letters G and K, unlike most of the New England Ogam, where voiced and unvoiced velar consonants are not distinguished. The fact that the distinction is made might well suggest to us that the Monhegan inscription is a late one. The word supposed to mean Phoenicia is spelled F-N-K, presumably to be read as Finiki, matching the Arabic Finiqi. That seems plausible enough, seeing that the extensive Greek influence in southern Spain would have familiarized the Celts with the Greek name Phoinikoi, "Men of the Purple," by which they designated the Canaanite dispensers of purple cloth.

But there does remain an alternative possible reading. The form F-N-K might well refer to the Feni people of Ireland, a self-governing kingdom whose cirizens were well acquainted with ships at the time when the Romans withdrew from Britain, as Dr. Powell has shown (page 301). This matter cannot be satisfactorily resolved at the present exploratory stage of our American researches, but it does give us pause to examine likely events in the progress of Celtic apprenticeship upon the sea in the centuries before the first written records occur.

So long ago as 1943 Jacquetta and Christopher Hawkes were stressing the apparent continuity of Celtic physical traits in the prehistoric sites of Britain from the time of the Urnfield People (about 1200–900 B.c.) onwards, giving as their opinion that recognizably Celtic speech was already being used in Britain at that period. The same authors noted that the so-called bluestones of the Stonehenge monument seemed to date from about Urnfield times, and that they had been traced to a source in Pembrokeshire by geologists. This would require a journey by sea of some 400 miles, surely the task of ships rather than coracles.

By the late seventh century B.C. we find in the so-called Massiliote Periplus, of uncertain authorship, indications that the Celtic-speaking Iberians had knowledge of distant lands called Ierne and Albion (Ireland and Britain). It seems rather unlikely that a people so adventurous as the Celts would sit idly by while Tartessian ships visited Andalusia to trade with them, without some at least of the young Celtic fishermen taking service on the famed ships of Tarshish, Indeed, I think it inevitable that the Tartessian art would have been acquired by some of the coast-dwelling Celts—and these, as the Iberian Ogam inscriptions now disclose, were Q-Celts or Goidels.

Is it not likely, then, that the various maritime Celts whose settlements in Gaul were later to come to the attention of Julius Caesar came originally from a part of Iberia where Tartessian tutelage gave native Q-Celts the art of oceanic navigation? The Goidelic character of the inscribed stones of La Vaux is consistent with such a view. It is generally thought that the earliest Celtic invaders of Britain were Q-Celts, so there could well have been a long tradition of involvement with coastal navigation among those Celts who were later to acquire the skills of the Veneti and their allies.

I have set down this chapter in the sequence in which the relevant facts have come to my attention. I began with the destruction of Celtic sea power under Caesar, for that is the clearest documentation we have of the subject; then my discussion ranged forward and backward in time from the point of reference supplied by Caesar, namely the summer of 55 B.C. The treatment is necessarily speculative, but perhaps it may open our eyes to the kind of evidence we should now be alerted to seek in the soil of the Americas, or upon the continental shelves of both New England and Europe, where storm-wrecked Celtic ships may perhaps lie encrusted with the growth of sea-floor denizens.



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DOTH on-site investigations and historical research had now shown that Celts from the Iberian peninsula were responsible for the Ogam inscriptions we find on ancient stone buildings in New England. In all probability the same Celts were the actual builders of the structures on which their inscriptions occur. It is also clear that the Celts, by virtue either of their own skills or those of their Phoenician neighbors in Spain, were capable of sailing to America to colonize any lands that appealed to them. The evidence now in our hands furthermore shows that Celts in considerable numbers did in fact settle here, particularly in New England. For America's Celtic inscriptions could not have been an independent American invention! Celts must have come here to write them.

This, therefore, is the place to say something about Celts as people, how they looked in ancient times, and how they lived. Then it will be a logical step to review their activities in America as evidenced by the remains of their handiwork.

First, as to their appearance. Various ancient writers, notably Julius Caesar, Strabo the geographer, and Diodorus have left accounts of the Gauls and ancient Britons. They described them as a fair-haired race, blue-eyed, very high spirited, boastful, quarrelsome, courageous in war, with a love of ornamentation. Warriors and men of the lower ranks went naked (at least in the warmer seasons of the year, when war was considered appropriate); the women were accustomed to wear garments; both sexes delighted in massive metal arm, neck, and waist bands. They lived in rude hovels in clearings in the depths of the forest; their huts were made of interlocked boughs over which animal hides were stretched. In winter the men wore a cloak made of animal hide, though their chieftains used rich cloth obtained from Phoenician or other traders.

Now these descriptions do not specifically relate to the Celts of Spain



and Portugal, but rather to the Celts of France, Britain, northern Italy, and the lands to the north of Greece. In Iberia the invading Celts, who may have entered the peninsula from France about 1000 B.c., soon became much intermingled with an earlier Iberian people. These original Iberians seem to have been the ancestors of the modern Basques, a theory first advocated by the explorer naturalist Wilhelm von Humboldt. According to Humboldt the Basque Iberians had occupied Europe long before, in the Stone Age, and had later been displaced by successive waves of invaders, the various tribes of the Celts and Teutons, Humboldt supposed that the dark-haired people of Ireland, parts of Scotland and southern France, and much of Spain and Portugal were descendants of the old Iberian Basque stock, their language now changed through contact with later invaders.

Humboldt's theory fell into disfavor, mainly because it was supposed that the ancient Iberian language is enshrined in the Iberian inscriptions of Spain and Portugal, which no one seemed able to decipher (an example of these supposedly undecipherable Iberian inscriptions is the contract of Nara and Makarios given in Chapter 8). Of course that argument is false and in reality most of the supposed Iberian inscriptions actually comprise Punic language, written in a local Iberian script. Some, however, are Basque, such as the funeral tablet of Queen Bengerd, and others are Celtic. So in reality we are back to where Humboldt started, I personally favor his theory, and believe that the dark-haired strain of Irish and Scots Gaels, as well as the other dark-haired Celts, are the product of ancient intermarriage of Celts with Iberian Basque stock, the language of the Basques having all but suffered extinction in the process of integration.

It therefore seems likely to me that the bands of Iberian Celts who crossed the Atlantic must have included many brunettes of original Basque Iberian extraction, though speaking the Goidelic branch of Celtic. They were probably about as mixed as we modern inhabitants of America are, blondes and brunettes intermingled.

But what about the skeletons? Don't they tell us anything about their owners, whether they were tall or short, and what clothes if any they may have worn? A good question, except that there are no skeletons to study as yet. Gravestones we have aplenty, their owners' names engraved in Ogam, but there are no bodies, alas. Why? Because all the gravestones we have so far found have been dragged away from their original positions by the colonial farmers of the eighteenth century, and built into the dry-stone walls that now crisscross the farmlands and second-growth woodlands of New England.

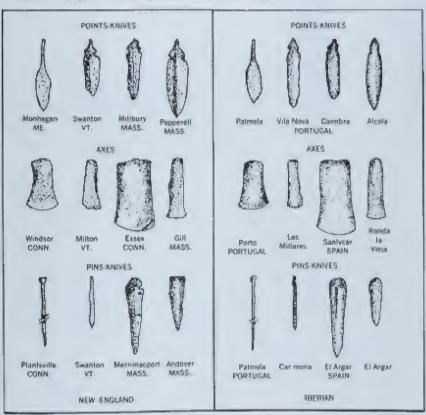
When we first recognized the gravestones this past spring, we began to try to reconstruct the actions of those colonists in the hope of identifying

where the bodies had originally been buried. So far no traces have turned up. There is a great deal working against us, unfortunately. Nearly all the rocks of New England are ancient granites and gneisses and schists with a high acid content. This means that the soil also is acid, and bones scarcely survive a hundred years in such soil. In contrast, the Celtic lands of France and England are largely limestone or chalk; the soil is alkaline, and bones last much longer. However, we hope to locate original burial sites by stone artifacts buried with the bodies. Metal, unfortunately, unless it be gold, deteriorates and vanishes in acid soil, but nametags or ornaments carved from stone could survive, and perhaps lie somewhere beneath the soil awaiting discovery.

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Numerous bronze adzes and other tools have turned up over the years,

Comparable copper and bronze artifacts of New England (left) and of the Iberian Peninsula (right). Drown by James P. Whittall (1976)





Bronze daggers of Celtic type: A, found in Merrimackport, Massachusetts, shortly after 1900 by Dr. C. A. Kershaw, and now in the Peabody Museum, Andover; B, late Bronze Age example from El Argar culture, Spain, now in the Peabody Museum, Harvard University. The blades were riveted to the handles, now decayed. From photos published by James P. Whittall (2970)

America B.C.

and also weapons, for example a spearhead, daggers, and a sword. These are probably of Celtic origin, though up until now the museums to which they were brought by the finders considered them to be Bronze Age artifacts brought to America by modern collectors and then accidentally "lost" here. James Whittall is presently reinvestigating these finds, on which he has already begun to publish reports. A hoard of bronze daggers was found at Madison, Maine, in 1924; William Goodwin tried in vain to secure them, but the finders would not part with them. Perhaps when word of our work becomes more widespread, other finders of like objects will make their discoveries known. Meantime we have to report that no graves have yet been found in undisturbed condition.

Much of what Caesar reported of Celtic life as he saw it was probably true of the New England Celts. I expect they too lived in skin-covered hovels of interlocked boughs. These, of course, have left absolutely no trace in either Europe or America. No doubt the New England Celts

were hunters, too, though a quern for crushing grain found near the temple of the Mother Goddess at South Woodstock may be of Celtic provenance. Clothing would doubtless match that of the European Celts, skins serving as the raw materials for the majority, the wealthier people obtaining cloth from Phoenician traders by bartering skins or metal ores.

All this, of course, is sheer speculation. But what about the permanent structures that the Celts left behind, besides the bare tombstones that lack bodies?

The permanent structures we find are of the class called megalithic; that is, made of large undressed boulders to which have been added more carefully trimmed stone roof-slabs and lintels, often weighing several tons each. This is very interesting, for although exactly the same types of construction occur in the Celtic lands of Europe, many of these massive objects have been considered to be the work not of Celts but of some race antecedent to the Celts.

It is a peculiarity of European archeology texts that the books that deal with the Celts say very little about megalithic structures and in fact say virtually nothing at all about any buildings made by Celts. It is as if the European Celts were quite clever, civilized beings who somehow forgot to erect any buildings. On the other hand, the European archeology texts that deal with the megalithic buildings of Europe say little if anything about the people who built them.

Now, is it not extraordinary that in America, and in particular New England, we can recognize all the main types of megalithic structures that our European colleagues report from Europe, yet our structures are associated in most cases with pagan Ogam inscriptions that betray their Celtic origin? Are we to suppose that New England, too, had its mysterious megalithic builders who were then followed by Celts, and that the Celts afterwards added their inscriptions to the megalithic buildings they found here? I do not find that hypothesis at all convincing. In my own view the megalithic buildings of New England are the work of Celts. That their European counterparts do not carry Ogam inscriptions must surely be due to the known fact that the early fathers of the Christian Church forbade their followers to go near the pagan monuments or, if they needed the stone for holy purposes, advised them to convert the heathen building to a church or monastic cell, first taking care to erase the offensive written matter.

There is clear evidence that some of the megalithic monuments of Europe are indeed very ancient, antedating the Celts, though the Celts chose to use them, as indeed the Romans did sometimes. But that does not mean that all such megalithic monuments antedate the Celts, or that

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the Celt was so helpless as to be unable to build a building should he require one. Now we can take a look at the chief classes of megalithic monument, and the names appropriate to each.

Best known on account of their bizarre appearance are the dolmens, a Breton word meaning stone table. Other names are used in Ireland, but these are not sufficiently well known to detain us. A dolmen is a memorial to a chief or to some event of importance, and takes the form of a huge central boulder, sometimes ten tons or more in weight, supported on three, or four, or five vertical stones like pegs. Good examples are to be seen at Bartlett, New Hampshire, and North Salem, Massachusetts, Other examples occur in Maine and at Westport, Massachusetts, the latter of

relatively small proportions. These American examples exactly match those known from Europe and the Middle East. The oldest proven examples are from the Middle East, much antedating the Celts in Europe, and showing that the design reached Europe from the East. No archeologist or geologist in Europe has ever suggested that dolmens are the work of glaciers. Indeed there was no ice age in countries like Syria anyway, yet dolmens are widespread there. Occasional perched blocks of stone called erratics are found on ledges, hills, or mountains, dropped there by the retreating ice sheet that had swept the boulder before it, but it has never been found, nor is it considered feasible, that a glacier could erect several boulders of exactly the right height and then neatly deposit on top of them a giant capstone. Yet some archeologists here, when faced with the evidence of megalithic dolmens, have claimed that they are the work of ice. American glaciologists have made no such statements, deeming such structures to be the work of agencies other than glacial ice, an opinion coinciding with that of their European and Syrian colleagues,

In France a curious intergradation can be observed between the rudest and most ancient dolmens, through later varieties where the support stones are neatly squared off into four vertical faces, then through yet another variety where the vertical pegs have been cut into cylindrical squat columns, terminating, in one extreme medieval example, with the giant capstone, in all its primitive formlessness, resting neatly upon four architectural columns of the Tuscan order! The American examples are

Two views of the largest Celtiberian dolmen yet discovered in North America, located at North Salem, New York. The 90-ton capstone is supported on the apexes of five erect peg-stones. Probably the memorial of a Celtiberian king, the North Salem dolmen most closely parallels a similar monument near Dublin. At Danbury, Connecticut, just across the state line, occur six Celtiberian megalithic chambers, some underground, associated with Ogam and Iberian dedications to the sun god Bel. Malcolm D. Pearson









Dolmens in Massachusetts (Westport), and Carrezeda, Portugal. James P. Whittall II





Above, the giant dolmen at Bartlett, New Hampshire. Robert Stone Below, twelfth century dolmen, with Tuscan columns supporting the capstone. Dated coins and other objects found under European dolmens indicate their continued use through Roman times into the medieval era, despite the opposition of the church to superstitions connected with paganism. Joseph Dechelette

all of the early type, which is in any case by far the commonest variety everywhere else. In Ireland the dolmens are rather small, resembling a Massachusetts example at Burnt Mountain, and our Irish colleagues believe that these were originally tombs, completely covered by earth that has since been eroded away.

The construction of a dolmen, especially those that are found at the tops of hills, must have involved immense labor. The vertical peg stones would first be crected, then a great mound of earth piled over them to permit the captone to be levered and dragged to the top. After the captone was set in place, the earth would be removed, allowing the huge boulder to sink on to its supports.

Analogous methods of construction would be used for a second type of megalithic monument found widely distributed in New England with a few examples in neighboring states. This is the slab-roofed chamber, a rectangular or square building, the sides made from natural boulders or large slabs of stone, roofed over by either one large square slab of about a half-ton or a ton in weight or, in the case of the larger examples, roofed by a series of lintel stones weighing up to three tons each. These are so numerous as to forbid listing particular examples, but reference may be made to the illustrations in this book. Structures of similar type occur in Europe, ranging in age from the youngest so-called souterrains of Scotland, some dating from the period of the Roman occupation, to much older examples from the Bronze Age, some or most having been used as tombs for tribal interments. The late examples from Scotland and Ireland were used for occupation by families, apparently during periods of stress, such as the Norse invasions perhaps.

The American examples have been considered to be the work of "colonial farmers," and termed "root cellars." The absurdity of this interpretation is sufficiently demonstrated by the facts in the accompanying table.

In Table 3, the data Sections 1 and 2 are the result of the researches of Byron Dix, an ardent amateur astronomer who has been investigating these alignments since 1973. His observations* were made entirely independently of my own work on the inscriptions, noted in Section 3 of the table. The miscellaneous inscribed material of Section 4 has been observed by John Williams and others. It is obvious that most slab-roofed chambers are temples.

A visit to a well-preserved megalithic slab-roofed chamber, such as the Pantheon near South Woodstock, is an experience never to be forgotten.

Characteristic Features of the New England Slab-voofed Chambers

(1) Like their European counterparts, the New England slab chambers nearly always face toward the east, with a prescribed pattern of deviation from true east that can be related to the solar cycle.

(2) The long axis of the New England slab chamber almost invariably lies along

one of the following astronomical axes:

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(a) Pointing due east; that is, declination zero, the surrise point on the days of the vernal and autumnal equinoxes.

(b) Pointing to declination +23½° on the eastern horizon; that is, the sunrise point on the day of the summer solutice.

(c) Pointing to declination -23½° on the eastern horizon; that is, to the sunrise point on the day of the winter solstice.

(d) Some other well-defined astronomical axis such as due south; that is, the direction of maximum elevation of any celestial body being used to calculate latitude by means of an astrolabe.

(3) The outer surface of the door lintel and/or the lower surface of the door lintel and/or the inner face of the door lintel carries (in well-preserved examples) an Ogam dedication to one of the Celtic gods, usually to Bel. The dedication may include the name of the god written in Phoenician letters as well as in Ogam. The dedication may occur on the vertical porch slabs.

(4) The inner walls or ceiling lintels commonly carry other inscribed material, including

phallic carvings.

The impressive ceiling slabs and the length of the chamber combine with its antiquity to impart a feeling of awe. This particular temple carries lintel dedications to Bel (the Sun god), and portions of dedications to other gods can be discerned. Hence our proposed name Pantheon. It is oriented to face the midwinter sunrise point, —23½° declination. The original mound of earth under which it was buried is still intact, with large trees growing over it, yet so high is the door lintel that a tall person can enter without stooping, a most unusual feature in any slab chamber.

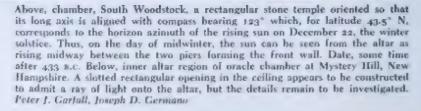
These temples usually have a square smoke-hole above the altar at the inner end; it may be cut into a circular slab of rock about two feet in diameter, or else merely comprise a chimney made of several stones. A rectangular window-like vent, with a covering louver, may also occur in the ceiling near the smoke-hole. These fittings seem to indicate that an altar fire was kept burning at the inner end of the temple.

There is no observed connection between the divinity to whom a temple is dedicated and the astronomical orientation of a temple. Thus of two temples at Woodstock one is oriented due south, the other to the winter solstice sunrise. A small chapel dedicated to Bel on Dix's Calendar Site t, near South Royalton, Vermont, is oriented to declination zero, facing the vernal and autumnal equinoctial sunrise point; another, nearby, faces due south.

^{*} See articles by Byron Dix in volume 3 of the Occasional Publications of the Epigraphic Society.

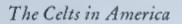








Massive lintel stones cap the ruins of a temple at Danbury, Connecticut, shown by John Williams to be oriented to the midwinter sunrise. Engraved inscriptions in the vicinity relate this structure, and others nearby, to the sun god Bel. The inscriptions include Ogam and Punic Iherian, and also the Mediterranean equinox symbol of the circle divided by a diameter, symbolizing equal day and night. The Danbury complex is provisionally dated to ca. 800-600 n.c., coeval with the Vermont and New Hampshire megalithic monuments. Malcolin D. Pearson





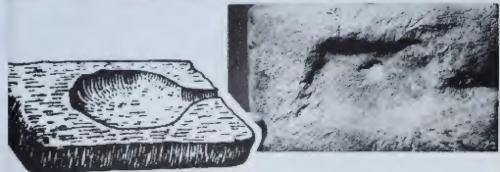




Outdoor altars to the Celtic gods are found in central Vermont, notably along the old Celtic highroad that runs through South Woodstock. Altars dedicated to the sun god Bel are identified by the three subscript staves of the Ogam alphabet, spelling the letters B-L (above). The middle photograph shows part of the natural rock altar of Bel, carrying a square incised libation bowl, covered by moss as when first found by Fell in 1975. The lower photo shows a cast of the same bowl prepared after removal of the moss. Ruins of a large temple occur beside the altar, several of the masonry blocks also carrying the Ogam inscription B-L, one in addition also carrying the name of a king who apparently dedicated the temple. Peter J. Garfall, Fell and Peter J. Garfall, Fell and Germano

The outdoor altar of Apollo or Mabo-Mabona, god of youths, whose name means Hero-of-Heroes or Youth-of-Youths, located at South Woodstock, Vermont. The inscription, reading in part from the left, gives the consonants of the name of the god, M-B-M-B-N. The lower photograph is a view from above of the carved rectangular seminal libation bowl, with runnel, apparently used during rites of initiation of youths of the tribe. It is cut into the horizontal surface of the altar, to the upper left of the inscription on the vertical face. The line drawing to the left shows an exactly comparable libation bowl, with side runnel, recorded from Portugal by Professor Adriano Vasco Rodriguez in 1961. Top photo by Joseph D. Germano, John Williams, bottom photo by Peter J. Garfall, Fell





The Celts in America





Ancillary wall or ceiling decorations generally relate to the divinity to whom the temple is dedicated. Thus the small chapel of Bel at Calendar Site 1 carries a quadripartite square, a symbol of the sun, appropriate to the sun god. The temple of the Mother Goddess Byanu beside the pond at South Woodstock, Vermont, carries on its ceiling a lightly punched and stained representation of Tanith, the Mother Goddess of the Phoenicians. Phallic symbols have no obvious relationship to the dedication, for a large ceiling phallus appears in the same temple of Byanu at South Woodstock, Vermont, and small phalli are also found in the Pantheon at the same locality.

Why should the structures identified as temples have their long axes directed towards the particular sunrise points on the horizon, as indicated in the table? A full answer is given in Chapter 13, but a short answer would be as follows. A typical Celtic temple is rectangular with a narrow entrance doorway in the middle of the eastern wall and the smoke-hole (and hence the altar) at the opposite or western end, these two features lying along the long axis. There are no window openings, the only light admitted coming from the doorway. Suppose you are standing in the chamber at the South Woodstock site in Vermont. The long axis points to declination $-23\frac{1}{2}^{\circ}$ on the eastern horizon. This means that on the three or four days of the winter when the sun reaches its southernmost limit (nowadays from about December 21 to 23), a person standing at the altar and looking through the entrance opening will see the sunrise, On all other days of the year the sunrise will not be visible to him. Evidently, then, the orientation of the temple must be to provide a dramatic event on the selected day or days of the year appropriate for that temple, in this case the four days of the midwinter festival. It is logical to assume, therefore, that each temple was associated with one or other of the festivals of the Celtic year, much in the same way as Christian churches are usually dedicated to some particular saint whose feast day is one particular day of the year, and whose congregation therefore makes a special celebration at the church on that day.

The sun's motion is relatively slow at the time of solstice, so the midwinter

Ogam Inscriptions in Okłahoma discovered by Gloria Farley throw light on the otherwise surprising occurrence of Celtic divinities in the archeology of that state. The voyagers apparently ascended the Mississippi, Arkansas, and Cimarron rivers, and left inscriptions and burial mounds. Above left, wooden mask of antlered god Cerumnos, from Spiro Mound, Oklahoma, Museum of the American Indian. Above right, bas relief of Cerumnos from Celtic bowl, National Museum, Copenhagen. Below, cliff engraving of Romano-Celtic phase, showing young horned God. Letters M M presumably stand for Mabo-Mabona, whose name may be a more ancient equivalent of Cerumnos of Gaul. Cast by Gloria Farley, photo by Peter J. Garfall

America B.C.

and midsummer festivals were necessarily spread over several days. In contrast, near equinoctial times the sun moves faster, and so the celebration of the spring and autumn festival was a more precise matter, each equinoctial festival occurring at sunrise on one particular day only. Thus, since the festival at the equinoxes was shorter, and hence less important, it is not surprising to find that a temple such as the one dedicated to Bel on Dix's Calendar Site 1 (near South Royalton, Vermont), where the axis of orientation lies due east and west, corresponding to the equinoctial sunrise and sunset directions, the temple itself is more modest, indeed no more than a small chapel. Here, we may guess, the tribal gathering was not at the equinoctial chapel, but on the nearby calendar site itself, where the Druids would be engaged in the astronomical observations.

These calendar matters, linked with Celtic religion and hence reflected in the physical orientation of their religious buildings, are undoubtedly to be traced back to an ancient cult of sun worship, and certain symbols widely distributed across the Old World at sites where the sun was worshipped in ancient times occur also on the walls or lintels of some of the Celtic temples in New England. They are also found at some other sites linked with various tribes of North American Indians, and there can be no doubt that the Indian shamans acquired these symbols from contact with ancient colonists in America such as the Celts.

The sun, as the giver of warmth that promotes the growth of all vegetation, both the forest foliage and the edible crops, and whose annual return after the winter months ushers in spring and the birth of the young of many wild animals, came to be regarded as the *Giver-of-Life*, a phrase that appears in the ancient Semitic Creation Hymn preserved by the Pima people of Arizona and Mexico (see Chapter 11). Thus any discussion of the role of the Celtic temple is bound to relate to the annual solar cycle whose astronomical axes determine the orientation of the temples and the dates of the year when any given temple celebrates its own special festival.

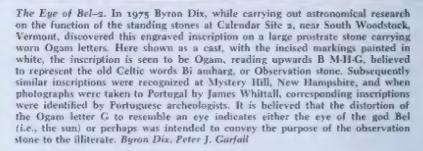
It is clear that the astronomical orientation of the various temples of the New England Celts is one of the most decisive facts showing that these structures cannot possibly have been built as root cellars by early colonial settlers in modern times. The farmers who cleared the land of forest in the eighteenth century were country people from England and Wales, Scotland and Ireland. Their names are on record in the town archives of New England, often also on memorial stones since erected in the public places, and still more conspicuously exhibited in the charming country graveyards, in the heart of the temple country of South Wood stock, for example. Here in the pioneers' burial ground we read the names of the fathers and mothers who first came to South Woodstock, their





The Eye of Bel-1. Until 1975 the subterranean stone chamber at the McIntosh farm near South Royalton, Vermont, was thought to be a colonial root-cellar. In the summer of that year Rene Fell (above, with cast) and Marjoric Chandler removed the soil over the entrance to disclose a deeply engraved stone lintel carrying a dedication in Ogam Celtic letters and a Phoenician monogram, showing that the building was dedicated to the sun god Bel. In the lower photograph of a cast of the lintel the Ogam letters read, from left to right, D-G B-L, to be read as Degos Bel. Temple of Bel. The pupil and lower eyelid are formed from the Phoenician letters B-L (Baal). An inscription within the chamber reads "Pay heed to Bel, his eye is the sun." Bottom photo by Peter I. Garfall, top photo by Joseph D. Germano



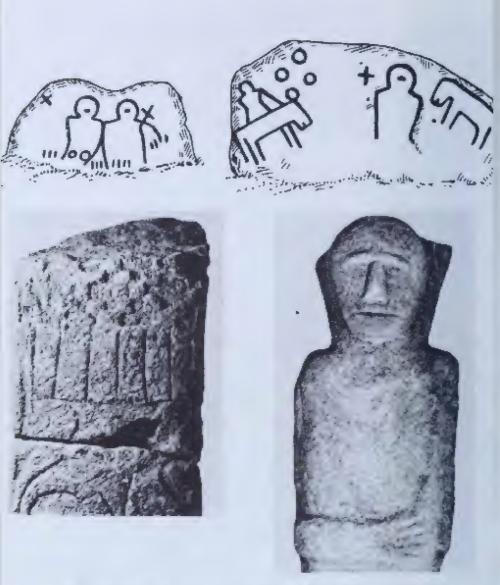


The Eye of Bel-3. After the identification of the sign of the eye of the sun god at sites in Vermont, more severely eroded examples at Mystery Hill, North Salem, New Hampshire, were recognized. On this cast of part of the surface of a standing stone, upper right, the inscription appears to be identical with that of the Vermont Calendar site 2, near South Woodstock, reading therefore "Observation stone." Oxborn Stone believes the monolith is related to lunar observations. Peter J. Garfall and Fell

The Eye of Bel-4. Following identification of the first example at Mystery Hill, Fell next found a more severely eroded eye inscription on an erratic boulder in the same line of sight as the summer solutice somest stone of the Mystery Hill calendar complex. Shown here as a painted cast, no readable Ogam letters are discernible. All casts in the Eye of Bel series were prepared and deciphered by Fell, photographed in color by Garfall, and rendered in black-and-white by Joseph Germano.







The Celtic Herm-1. A herm is a rectangular block or column of stone having a human head or skull carved at the upper end, and set into the ground as a grave marker or as an image to a god. In 1904 some carved monoliths were found at La Vaux in Brittany carrying representations of herms (top, from Joseph Dechelette), accompanied by Goidelic Ogam lettering giving the names of dead warriors and sailors. The crosses may indicate a Christian date. The figures at bottom are from the pagan Celtic sites near Wurttemberg, Germany, in the Landesmuseum, Stuttgart. The right figure is part of a double-faced image. The left is a fragment carrying Ogam letters M—Q-M ("noble youth"). The Ogam of the Breton example at the upper left reads T-U1-UI F-S-D-H, and apparently means "The two men named Tawi laid to rest."



The Celtic Herm-2. A badly eroded massive herm was found in 1975 by John Williams in central Vermont, near remains of stone temples dedicated to Bel and to Byanu in the high country near Reading. It carries no readable inscription and the head lacks detail. It still stands nearly erect, and libation bowls are cut in nearby rocks. This may be an archaic image of Bel, antedating the more sophisticated sculpture of the South Royalton sites. John Williams and Joseph D. Germano



Celtic art is characterized by the manner in which natural figures, such as birds and animals, pass insensibly into geometric elements in the design. The motif at the upper left is from a Cocle dish, Panama, in the Peabody Museum, Harvard University. The other three are from the ceramica negra iberica of Spain, in the Museo Numantino, Soria, Spain. As Celtic inscriptions and other artifacts occur in Florida and west to Oklahoma, it may be inferred that perhaps Panamanian potters came under the influence of these southern Celtic outposts.

Celtic motifs from the old world and the new. Above left, Cocle bowl, Panama, in the Peabody Museum, Harvard University, drawn by Gerald Heslinga. Other figures are from ceramica negra iberica in the Museo Numantina, Soria, Spain, after Jose Camon Aznar, Las Artes y los pueblos de la Espana Primitiva, Espasa-Calpe, Madrid.

The Celts in America

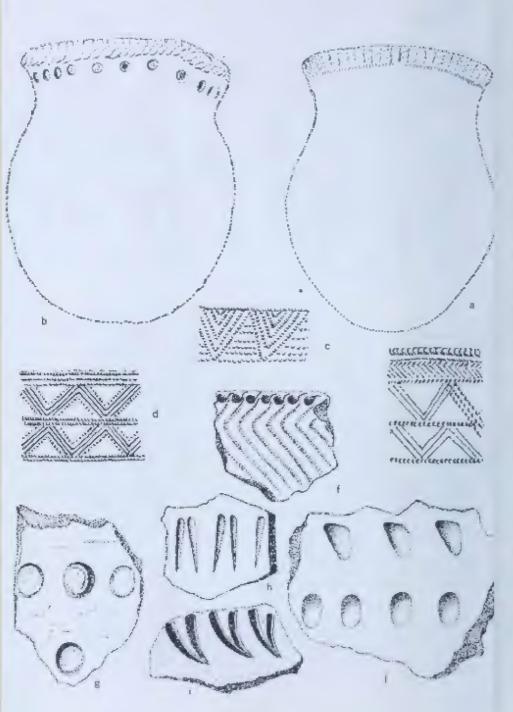
children and other relatives. The simple inscriptions show that these were certainly no band of astrologers or philosophers imbued with druidic learning. To assert that these megalithic buildings are merely "root cellars" built by the colonists is unjustified. Even supposing that by some unexplained means the colonial farmers were able to inscribe Ogam and Phoenician dedications on their "cellars," this would by no means explain the systematic orientation of the cellars with respect to the ancient rites of the Celtic solar year.

Monoliths, also called standing stones, are among the most characteristic features of any Celtic landscape, in New England no less than in Europe, though as yet we have not found American examples so impressive as some of the giant monoliths of Brittany. Some appear to have been monuments to dead heroes. Others perhaps marked a battle, a crowning ceremony, or some other event long remembered but now forgotten. We have collected some photographs of monoliths in Vermont, some now overturned, though capable of being erected again should such be the wish of their custodians, the present landowners. Standing stones often occur in threes, especially in straight lines of three. The magic properties of the number three are remembered to this day by the Gaels, and in Scotland when I was a student I was taught the following ancient prayer:

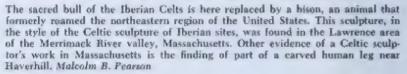
Comnadh trí mo dhuil, Comnadh trí mo run, Comnadh trí mo shuil, Agus mo ghlun gun chlaon, Mo ghlun gun chlaon!

May three aid my hope, May three aid my love-making, May three aid my eye, And my knee from stumbling, My knee from stumbling.

Celtic burial urns from Iberian and North American sites. Bell-shaped, unglazed urns were introduced into the Iberian Peninsula near the close of the European Bronze Age, and it is considered by Portuguese and Spanish archeologists that Celts of the Urnfield culture of France brought these ceramics into Spain around Soo B.C. They usually have an incised geometric pattern, especially around the rim. Their purpose, when buried in funeral mounds, was to hold ashes of the dead. Vase a, above, is from Marles, Barcelona, and the similarly shaped vase b is from Owasco, New York. The incised patterns c and d are from Las Cogotas, Portugal, and that of figure e is from New York. The other rim sherds are from Amoskeag, New Hampshire (coll. James P. Whittall); the impressed circular and oval decorations (seen also in the New York vase, b) are paralleled by a similar decoration in ware from archeological sites in Majorca (fide Salvatore Trento, personal communication); the New Hampshire examples are from an area believed to have been in Celtic occupation.











How you get inside depends on the temple. Above right, Fell emerging from a small hole leading down into the completely subterranean temple of the Eye of Bel at the McIutosh site in the White River area. Below, Rubert E. Stone, director of Mystery Hill, shelters from 95-degree summer heat in the equinoctial porch of the temple of Bel on the hills above South Royalton, Vermont. Photos by Peter J. Garfull

Rings of stones, sometimes double rings, with or without a central stone, also characterize Celtic lands, Vermont and Connecticut included, Burnt Mountain in Massachusetts, and other New England localities. In Ireland they range in diameter from ten feet upwards, and those of America are of similar dimensions. Their functions are not really known, and probably varied. Some seem to have been religious or astronomical, having an east-west axis marked by extra stones; others may have been no more than protective fences around a grave tumulus. Some seem to have been the outer limits of a hut or wigwam. Two sketches from my notebooks illustrate these small circles of puzzling purpose. The circle represents the protective power of a deity, and in the prayers of the Hebridean fishermen when the sun rises Alexander Carmichael recorded the following lines that may well come down from pagan times, for the circle was the symbol of the sun god Bel:

Dia dha mo chaim,
Dia dha mo chainn,
Dia dha mo chainn,
Dia dha mo smuain!
God be my enfolding,
God be my circle,
God be in my words,
God be in my thoughts.

Perhaps the last couplet was added in Christian times.

When the Celt of old had lived his span of days, his friends and relatives held a wake for the departed, the feill of the Irish or gwyll of the Welsh, and after much loud caoin (keening or lamentation) his body was laid to rest in earth. Many ancient heroes of New England sleep among the Green Mountains in the soil they once trod. Their simple tombstones give just their name and the name of their father, occasionally also the word "alas" is found, as on the grave markers of the Celtiberians of the Susquehanna valley. The names we read are older forms of names that many a Celt yet carries: Da or Dai, Lu or Lew, Hu or Hugh, Yoghan (Ewan or Evan), Gab (Gavin) and many another yet to be recorded. So here in the quiet beauty of the mountain valleys lie the remotest ancestors of how many modern American families, themselves the descendants of those who stayed behind in Europe but whose progeny eventually followed the ancient urge to cross the wide ocean to the western lands. Truly the mountain pastures of Vermont are hallowed soil. The Gaels have preserved the ancient prayer of one who is about to be laid to rest, a lesson in humility that still can have meaning for us:

Caimich mi a nochd Eadar uir agus earc, Eadar run do reachd, Agus dearc mo dhoille

Bury me by night, Amid the pastures and the herds, Amid the mystery of thy laws. My unseeing eyes.

This poem of resignation is addressed to a deity called, with typical Celtic periphrasis, Thou Being-of-laws-and-of-the-stars, some creator god of the old philosophy that the Church adapted to Christianity. Has any modern faith more to offer by way of comfort? The ancient Celt looked into his future after death and accepted the end of existence as a mere personal detail. Perhaps therein lay the strength that carried him across an ocean to settle a strange and hostile shore.



11

The Celtiberians

HE men of Tarshish established colonies in eastern North America, the settlers probably drawn from the native Iberians (that is, Celts and Basques) of the Guadalquivir valley in Andalusia. That they could not have included many Phoenicians is apparent from the lack of sophisticated material cultural objects at the sites so far investigated. Rather, these colonists must have been accustomed to the rude manner of life of the Iberians before the arrival of Phoenician traders in Spain but, like many colonial peoples, they had acquired the language of their colonizers, in this case the Phoenicians, and some at least of their chieftains were literate in the Tartessian manner of writing the Phoenician (or Punic) tongue. These inferences are drawn from the documents found in their chieftains' burial mounds.

The first authenticated find of an engraved Phoenician tablet in an American archeological context was that of a Tartessian inscription found in 1838. This tablet was excavated from a burial chamber found at the base of Mammoth Mound, in Moundsville, West Virginia. Although the Tartessian alphabet had not then been deciphered, the similarity of the inscription to Iberian writing was recognized, and in the contemporary reports of the dig, the mound and its contents were attributed to European visitors. Man-made burial mounds, or tumuli, are characteristic of many royal graves of the European Bronze Age.

The notion that Europeans had visited and even settled in North America in ancient times continued as an acceptable hypothesis in the archeological periodicals for the ensuing forty years. Then, sometime around 1870, the opinion became widespread that there had been no such callers before Columbus. The Moundsville tablet was forgotten, or dismissed as a later intrusion that had accidentally fallen into the mound, or been surreptitiously introduced by some irresponsible person; others thought it was a Cherokee artifact of quite modern date, unconnected



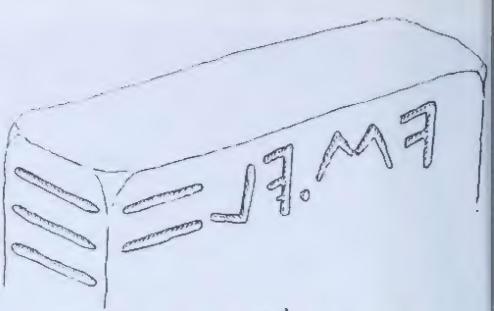
This engraved tablet, inscribed in Iberian script and employing the Punic language, shares some of its vocabulary and all its basic style characters with the historic tablet of Tasach, excavated in 1838 from the foot of the Mammoth Mound at Moundsville, Grave Creek, West Virginia. Thus it is clearly related to the Iberian culture of Moundsville. It was found in a stream bed in central West Virginia, and erroneously supposed to be of Viking origin. Its vocabulary is found in standard Semitic dictionaries, and yields the following translation, the script matching that given in Diringer's tables:

- (1) The memorial of Teth
- (2) This tile
- (3) (His) brother caused-to-be-made

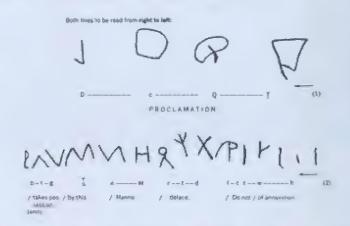
Compare the inscription and the translation with the data given for the tablet of Tasach in chapter 2. Ceramic cast courtesy Dr. Clyde Keeler, photo by Joseph D. Germano



The Pontotoc stele, found in Oklahoma, is apparently the work of an early Iberian colonist in America, as the script is that known otherwise only from the Cachaoda-Bapa region in northern Portugal. It depicts the life-giving rays of the sun descending upon the earth beneath. To the left the Iberian Punic letters spell "Start of dawn," to the right "Dusk," with the crescent-ship of the moon. Two of the panels contain Ogam Punic, partly illegible, but sufficiently clear to disclose the phrases "When Baal-Ra rises in the east, the beasts are content, and (when he bides his face) they are displeased." These identify the inscription as an extract from the Hymn to the Aton by Pharaoh Akhnaton, here translated into Iberian Punic. Further study of this remarkable stele is still in progress. Although Akhnaton's hymn dates from the thirteenth century B.C., this American version can scarcely be older than about 800 n.c. The engraver was interrupted, covered over his work with soil, and never returned to complete the blank panels. Gloria Farley, Weldon W. Stout



"Haga rests here" is the purport of the bilingual inscription on an ancient gravestone found at Bache, Oklahoma. The South Iberian script reads from right to left H-L-L H-G. The Ogam script to the left, in the style of Cachao da Rapa in northern Portugal, reads from below upwards H-G. The name Haga is probably cognate with modern Arabic Aga, meaning "chief." This stone, which yields a phonetic value for the Ogam sign for G, could be substituted for the Iberian inscription (c) cited in the Appendix (Cracking the Code), thereby making the decipherment of the American Ogam inscriptions totally independent of European materials. Such independent decipherment, however, yields a result that matches that derived for strictly European inscriptions. Gloria Farley



Decipherment of Iberian inscription on the Bourne Stone, found at Komassakum-kanit, Cape Cod Bay. From Occasional Publications of the Epigraphic Society, v. 2, no. 44 (1975).

Approximate vocalization

- L. Tokidh
- 2. bawasa. Il datar. Hannu sha galuba.

Translation

A PROCLAMATION

z. of annexation. Do not deface. By this Hanno takes possession.

	Iberian			
Roman	Massachusetts (Bourne)	Southern Spain		
ь	5	4		
8	V	V		
d	×	×		
q	1	1		
ħ	111	#		
w	Y	4		
ķ	Н	H		
ţ (th)	P	\Diamond		
q	Q	op		
l	\wedge	^		
n	\vee	M		
ş (sy.)		
¢ (I)	0	0		
r	9	P		
5 (sh	, ~	~		
1	y	4		

Alphabets of the Bourne stone and southern Spain, compared.

Punic settlers Sound 9.9 9.9 b R d h W h 4, K, K m 1, 1

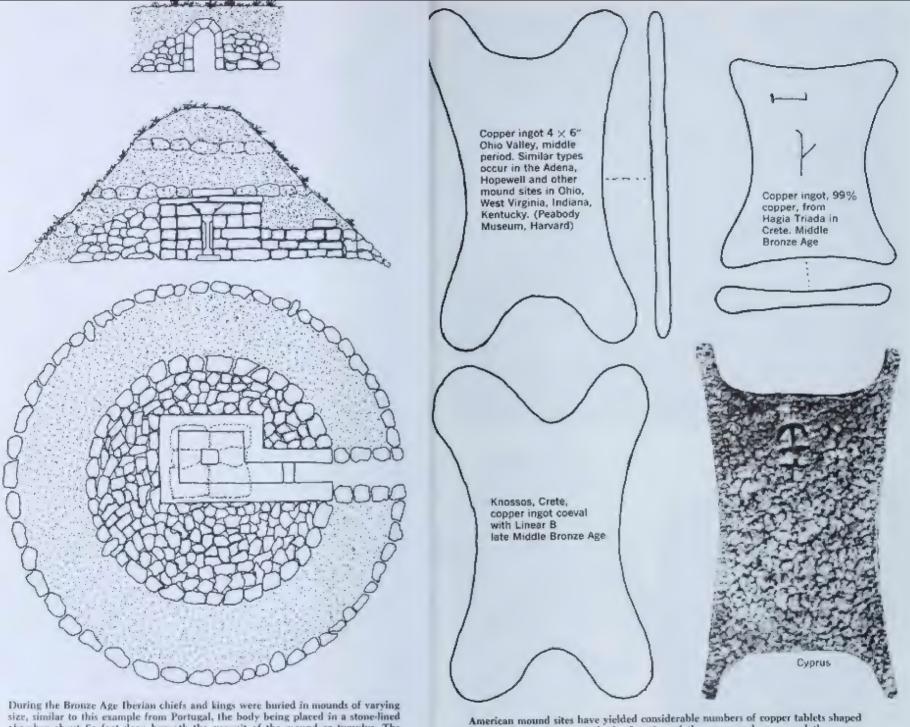
The Phoenician (Punic) colonists of Iowa used an alphabet that shows clearly that their homeland was in the Iberian peninsula. The Iowa inscription was found at Davenport in 1874, and is written in the Iberian alphabet whose sound values were determined in Spain 60 years later. Failure to identify the Iowan alphabet led archeologists until now to suppose that the Davenport finds were fraudulent.

5

with the so-called Moundbuilders, a word coined for a supposed phase of Woodland Indian culture on the east coast. Interest in the Moundsville tablet was revived in 1948, when Olaf Strandwold declared it to be Norse and, by what means no Norse scholar can fathorn, contrived to read it as: "I knelt on the island, On's Yule site on meadow island. Now the island is a sanctuary where holy things are hoarded," To obtain this peculiar translation he was obliged to duplicate letters, turn some upside down, ignore some parts of letters, and assign more than one sound to the same signs. The effect of this unfortunate Norsemania was mainly to discredit epigraphy in America, and the view hardened that Columbus was in fact the first European visitor to these shores,

By 1968, when the English epigrapher Diringer brought out tables of the comparative phonetics of the Iberian alphabets, it was already possible to read numerous Semitic words and phrases in the various Spanish inscriptions in the Iberian scripts. Spanish scholars, however, had meantime become interested mainly in the classical era, particularly the Greek settlements of Catalonia, where vowel signs had been introduced into the writing system by changing the sounds of certain Phoenician letters. Thus the Andalusian texts, which retain the ancient Semitic manner of writing only with consonants (and semivowels such as y and w), were seen as untranslatable writings in an unknown language. It is almost as if the Spanish epigraphers had set their minds against reading Semitic texts, for they do not seem to have noticed the Phoenician character of the Iberian and Tartessian inscriptions. This is the more surprising since no less an authority than H. N. Savory in England gave a masterly review of the Phoenician characteristics of the Tartessian culture and its viability in the face of Celtic inroads, in his book Spain and Portugal, published the same year (1968) as Diringer's Iberian tables. So it is not altogether strange that several more years elapsed before the Iberian character of our American inscriptions could be detected and proved.

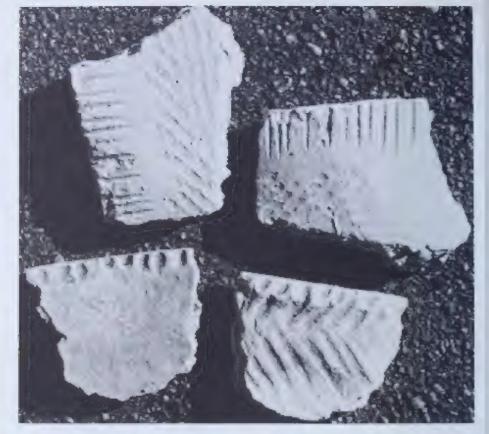
Such has been the checkered history of the Tartessian inscriptions of West Virginia and Ohio. Interest in them was renewed in 1974, when Professor George Carter in Texas noticed the similarity of many of the letters in his copies of these tablets to letters I had then recently reported from Libyan inscriptions. He forwarded copies of the American tablets to me for study. I could see that they carried a script of the Iberian group, related to the Libyan but with many differences from it. I could also see that the reading direction must be from right to left and that Phoenician words occur in the inscriptions, though often abbreviated or spelled differently from the more usual dictionary forms. The style was terse, rather like creole or pidgin-English, suggesting that the writers may have been using a language other than their native tongue. Although I was not at



size, similar to this example from Portugal, the body being placed in a stone-lined chamber about 60 feet deep beneath the summit of the mound or tumulus. The corresponding mounds of eastern and middle United States had timber chambers rather than stone, but they contain similar archeological remains to those found in Iberia, including mortuary inscriptions in Iberian script and language, like that cited in chapter 2 from Moundsville, West Virginia.

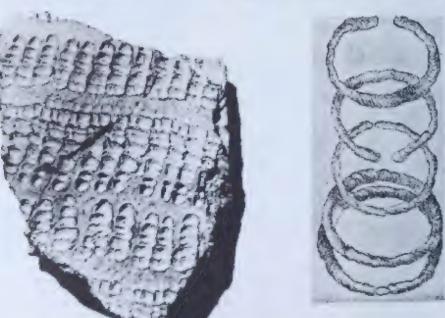
American mound sites have yielded considerable numbers of copper tablets snaped like the hide of an animal; the function of these was unknown, and they were namd "reels." However, in 1896 in Cyprus, and subsequently in many Mediterranean excavations, corresponding Bronze Age copper objects, recognized now as ingots used as international Bronze Age currency, have been found. The American examples indicate an international trading system extending to the Atlantic states.

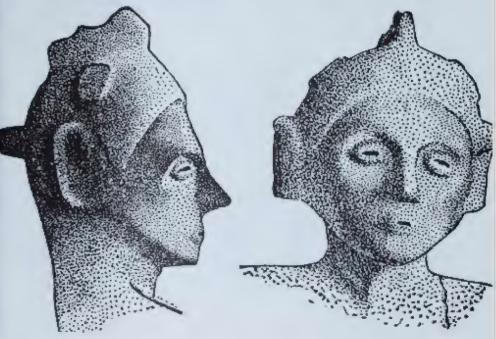
The Celtiberians



Pottery appears abruptly in northeastern American sites, suggesting that it was introduced by visitors or settlers from Iberia during the Bronze Age. Above left, rim sherds from a collection made at Amoskeag, New Hampshire, by James P. Whittall II, from a deep horizon prior to dam construction. The geometric pattern of incised parallel lines in chevron form resembles Iberian ware of the Bronze Age. Below left, a sherd collected at Raymond, New Hampshire, by William Goodwin's group. Below right, five copper armbands, resembling those of the European Bronze Age, found in the burial mound of Tasah when Mammoth Mound was excavated in 1838; this find was associated with a Celtiberian inscribed tablet, deciphered on page 158. Top photo by Joseph D. Germano, left photo by Peter J. Garfall

Portrait figurines and also figures of animals appear as handles or rim decoration in Iberian pottery during the latter half of the first millennium B.C., and Portuguese scholars attribute their presence to the influence of the Greek settlers, as also to Punic influence. Similar terracotta figurines form the handles or decoration of North American pottery from the Mound Burials, as seen in these examples. The European features and the Iberian form of the headdress are noteworthy. From S. D. Peet, The Mound Builders, 1892. Left, Gerald Heslinga, Buffalo Museum. Right, Peabody Museum, Harvard University







The Phoenician at home and abroad retained his characteristic high-crowned hat, the hennin, worn on formal occasions. It is here illustrated by two terracotta figurines. Left, an American example, excavated from a Mound Builder burial mound. Right, a figurine from Hagia Irene, Cyprus Museum. Both figurines date from the 8th to 6th century B.c. For a comparison of the alphabets used by the Phoenician colonists in Iowa and in southern Spain, see page 162. From S. D. Peet, The Mound Builders, 1892.

first informed by Carter as to the source of the tablets, I could tell from the text that they came from funeral mounds, for words answering to these meanings occurred in the brief phrases.

The translations should still be regarded as tentative until we have a fuller documentation of the Andalusian dialects, but I think the versions offered in this book are not likely to be grossly in error. The lack of vowels, with resultant uncertainty as to the precise words intended, is the main cause of difficulty to the epigrapher.

The Celtiberians, as already noted, were a mixed assemblage of tribes speaking several languages, and one of the constituent nations must have been the Basques. Nowadays Basque-speaking people are found in Europe only around the shores of the Bay of Biscay and the adjacent parts of the Pyrences Mountains between France and Spain. Modern Basque is rendered in two main forms, French Basque and Spanish Basque, but each comprises a number of local dialects.

In 1975 I was introduced by American colleagues to Marjorie Chandler of New Hampshire, curator of inscriptions for the New England Antiquities Research Society. In her custody are some 450 inscribed stones collected in the 1940s by the late Dr. William Strong from the lower part of the Susquehanna valley in Pennsylvania. Many of these are inscriptions from the graves of early settlers, and the variety of scripts and tongues on the stones tells us that these were Celtiberians of Basque, Celtic, and Punic origins. A few examples of the Basque stones given here will illustrate the modest nature of the settlement, about which we know very little else at the moment. Much more research needs to be done in the Pennsylvania area. Even as I write this chapter a young archeologist visitor from Harrisburg tells me that the specimens from the Strong collection in that city's museum are kept out of sight and the inscriptions are referred to as marks made by plowshares!

Another, and in some respects richer, source of evidence regarding the Celtiberians is known. The Pima peoples of the Southwest are a loosely knit confederation of tribes governed by makai, a word translated as magician or wizard, and evidently related to the old Semitic word magi. with the same sense. During 1901–1902 Frank Russell, an ethnologist of the U.S. Bureau of Ethnology, lived with the Pima and transliterated into roman letters the ancient Creation Chant which at that time was still remembered by the makai. It was published in 1908 by the Bureau, together with a crude attempt at a translation. In truth, while every praise must be accorded Russell for thus preserving the Chant, his translation is very inadequate for, as he himself reports, the archaic words in the Chant often baffled him. Here is a sample of his attempted translation:

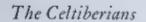
Earth-Magician earth make. Come see what you intend. Round make come, see what you intend. Earth-Magician mountain make come, see what you tell, Smooth make come, see what you tell. . . .*

Small wonder that uninformed people tend to think of Amerindian languages as childish and even incoherent! Sheer literary murder has been done here, all unwittingly.

The plain truth is that the devoted ethnologists who collected the ancient literature of the Amerindians lacked the linguistic skills to realize what they were doing. Russell, and apparently every other investigator, failed to recognize the Creation Chant as an ancient Semitic hymn.

Although the language is Punic and most of the words in it are no longer used by the Pima, the subject matter of each section of the chant

^{*} Twenty-Sixth Annual Report of the Bureau of Ethnology, Washington, D.C., 1908.





The 500 inscribed stones collected in the Susquehama valley by the late Dr. William Strong comprise Celtiherian, Phoenician, and Basque grave markers from a Bronze Age settlement, about 800-600 n.c., though mistakenly dismissed as "marks made by plows" by some professional archeologists. Above, Marjorie Chundler and Fell with the Strong collection. Helow, grave marker; casts of both sides of stone recording the death of a Punic speaker named Q-S; the Y-shaped mark is the letter Wa, signifying mourning. Peter J. Gartall

was correctly identified by Kamal Tkak, the magician who dictated it to Russell. Section 1, dealing with the creation of the earth, for example, and Section 4, relating the creation of the sun, are so titled in Russell's translation. It is evident that in the course of time the Pima language diverged so much from the original Punic that the latter could no longer be understood by modern speakers, in the same way that a modern English speaker can scarcely comprehend a word of the Anglo-Saxon Gospels unless he has training in the archaic forms of the old English language. Here now, for comparison with Russell's attempt at translation, I give the translation as I believe it should be rendered, using a Semitic dictionary:

In the beginning the World-Magician created the earth.

As time went by he set plants upon his handiwork.

By magic, water for irrigation came into being, and so vegetation arose upon his handiwork.

Then the World-Magician created rains by magic, to water his handiwork, so the crops would ripen.

The whole remarkable Creation story continues for page after page in the bureau's annual report, rendered there as nonsensical English. If read as Semitic, however, the text unfolds a conception of the Creation as poetic and logical as any to be found in ancient scripture. Thus, failure to apply comparative linguistics to the Amerindian tongues has led in this instance to major errors in our understanding of the whole spectrum of American history, and the role of Mediterranean peoples in it, as well as doing grave injustice to the cultural tradition of the Amerindian peoples. In the case we are considering the errors disclosed lead me to propose the following corrections:

- (1) The Pima tribe speaks a Semitic tongue evidently derived from that of the Iberian Punic colonists who settled America 2,500 years ago.
- (2) The Pima have preserved with remarkable fidelity the ancient religious scriptures of these early Iberian Punic colonists.
- (3) These scriptures have a poetic and literary quality wholly obscured by the grotesque mistranslation to which they have been subjected.
- (4) The false notion that Amerindian tongues evolved as unique American phenomena has led to a classification of them that does not express their true affinities.

Should anyone claim that the Pima example is an atypical case, the claim may be subjected to examination by reference to other Amerindian tongues. In the next chapter of this book it is shown that the language of the so-called Zuni tribe (more correctly the Shiwi or "Nomads") is a tongue directly derived from the Libyan speech of North Africa, in which the Coptic, Middle Egyptian, and Nubian vocabulary is overwhelming.

LABLES 1

Extracts from the Sacred Creation Chant of the Pima Indians (Semitic roots in the Arabic text are given in their dictionary form, in Roman script.)

- a. Pima
- b. Arabic
- c. English translation

_		er refilitett remissansen
1	J.	Top-Wuru-Makai to wulu nata mi
	Br.	Tagna-Watan-Makana tagna watan nata mia.
	4.	The Solid-Earth Magacian the tolid rath created in the beginning.
2	.3	Aku ka niyista hasit co ony-i
	Ь.	Alph kan niyat hatida ka ana i.
	c	Efe set on his handswork herbs as time passed.
	3.	Sikala mu nata miakuka.
	b	Sigaya mu nataj makraga.
	Ę,	Irrigating water he created by magic.
	1.	Nyuita hasit co-onyi. (do copo from 1)
	èi.	Niyar hasida kana-i.
	c.	On his handiwork plants came into being.
		Teu-Wutu-Makai talaku nata miakuka muita hasi yana.
	A.	
	13.	Tagna-Watan-Makana dalaga nataj makraga niyat hasida yana. The World-Magician rains created by magic on his handswork to crops bore fruit.
	4.	The World-Magnetan rains created by magne on his handswork to crops bore fruit.
3	2.	Tapi-nyi mu nata miakuka nyuita hasi yana (de capo (tom 5)
	b.	Dubub-nyi mu nataj makraga niyat hasida yana
	ε.	Ever-flowing waters he created by magic on his handiwork so crops bore fruit.
	3.	Teu-Wuru-Makai teu wutu nata himlo, himlo, himlo, hu mutto-o. (den
	ъ.	Tagna-Watan-Makana tagna watan natsi hami, hami, hami, hu mudiya.
	<	The World-Magician the solid earth created, and fruits upon fruits upon fruits he created.
	3.	Tcu-Wunu-Makai tava'-ku nata (bir) himlo, himlo, (etc.)
	1	Tagna-Watan-Makana dauha-kau' nataj hami, hami.
	<	The World-Magneian fruit trees created fruits upon fruits.
	A,	Teu-Wuru tapa Sihait oon ye-ka-ana.
	h.	Tagam-Watan tabba Sahida kaun ya-kauna,
	4	The Earth now established, the Universe continued to form,
	2.	Tavangu tapa sino mama scu-u.
	b.	Tabina tabba Sana mamar taka.
	c.	Animals were created of diverse sorts at times preordained
		The Creation of the Sun
		i ne Greatan of the Sun
	2.	Vanyingi tara ai. Wu nata kahi Hiya-nyi tamai.
	ъ.	Bunyan rurs auj. Hu nataj qahir Dyxa-nyi qansih.
	C.	He raised the sun on high. He created the mighty Giver-of-Life aloft.
	2.	Ya ahail Punan aiu ko-ol (bir)
	1	The division of the first factory

1).	а. ъ. с.	Bunyan t	ars as. nurs auj. the sun on h	Hu igh, He	mataj	eans quhir the mighty	Iliya-nyi Giver-of-	qumih.
12.	а. Б. с.	Ya abait Ya ayal What a ma	Punan Bunyar rrvel! Raised	s ata	kaya			
14.	а В с.	So-iya Swiya He regulated	ldi ladi the sharpnes	takio, taqs, of the we	Wil	opa abl vang rain	himu hamma in beat	kahowu. quhula. and drought.
14	41. Et.	Tait Tiyat The design	cun kaun of the world	yuku, yakana, continuing,	sapava sabaka shaped	Mununaa Muniya. by Destiny		from 13)

The Creation Chant then goes on to deal with the Creation of the Moon (Pima mar, Semitic amar), the celestial vault or atmosphere (Pima howa, Semitic hawa), premonitory warnings of an impending Flood, the Flood itself, referred to as a submergence or subsidence (Pima rso, Semitic rusub), and the eventual salvation of chosen beings who survived the Flood. It is interesting that the Pima priests (makai, wizard, matching the Semitic makana and magus, magician or wise man) not only have preserved this ancient Semitic epic as a remembered sacred history, but also have retained the sacred words of the ancients, such as Tars (the sacred disk of the sun, matching Turs, with the same sense) which, it will be remembered, we found written in Phoenician and Ogam characters on the cliff face at Cachão da Rapa, a relic of the Iberian Bronze Age.

The Celtiberians

It is therefore not unlikely that the New England Celts may also have been in possession of the Flood story, indeed of the whole Creation story, in view of their shared Phoenician hieratic terminology in Iberia itself.

The existence of the ancient Semitic Creation Chant in America has not been noticed before. The excerpts given here are therefore the first published evidence of yet another aspect of the continuity of Amerindian culture with that of the Mediterranean. So far as the Pima language is concerned, it is of course obvious that its linguistics must be entirely reexamined so that the correct place may be assigned it among the Semitic creole languages,

Pending the further progress of my work I presently think of the Pima as descendants of some Celtiberian tribe that had been converted to the use of the Punic language by Phoenician colonists in Spain, and whose more adventurous members migrated to the Lands Beyond the Sunset under Phoenician leadership. They probably spoke a creolinized form of Punic, "Pidgin Punic" you might say, of which the present-day Pima speech is the modern descendant. In the same way, in Europe, the creolinized forms of Latin used by the Celtic tribesmen of France during the Roman occupation eventually gave rise to the Old French language, just as similar transformations occurred in parts of Spain, Portugal, and Italy.

It is quite in the cards that somewhere in the United States there are still spoken derivatives of the ancient Basque tongue, too. A fascinating letter I received from a Shoshone Indian who had been traveling in the Basque country of Spain tells of his recognition of Shoshone words over there, including his own name, whose Shoshone meaning proved to match the meaning attached to a similar word by the modern Basques. Unfortunately I mislaid this interesting letter. If the Shoshone scholar who wrote to me should chance to see these words I hope he will forgive me and contact me again. The modern Basque settlers of Idaho may perhaps bring forth a linguist to investigate matters raised in this chapter.

The Libyans of Zuni

HE coming of the Libyans is still one of the most mysterious of the colonial episodes of American history. We have so far found relatively little in the way of coastal inscriptions to tell us the time of their arrival, or of their portals of entry into the land. Just a few tell-tale written fragments from scattered points, including one from as far north as Quebec, one from California, and others from cliff faces along the Arkansas and Cimarron Rivers in the southern Midwest; and nothing else. Nothing more until the year 1879, when the U.S. Bureau of Ethnology was established and began their investigations of the Zuni country of New Mexico.

Unusual features of the Shiwi and Hopi tribes had already come to the attention of Professor J. Walter Fewkes (like me, a marine biologist at the Museum of Comparative Zoology at Harvard) and of James Stevenson. Continued work by these and other parties led to the publications of important memoirs and the preparation of Zuni linguistic and lexicographic materials. Although the vocabulary soon made it plain that the Zuni language is related to no other Amerindian family of tongues, no attempt seems to have been made to determine if it had external affinities.

While examining Pueblo materials in the Peabody Museum of Archeology at Harvard University, my attention was attracted to a white leather sun-disk that, according to its label, had been obtained from New Mexico after a religious ceremony of the Shiwi (Zuni) in 1891. On it are painted the Libyan letters T-M, a formula adopted in Egypt as the phonetic rendering of Atum, the primeval sun god of North Africa. The Libyan language, as I have shown elsewhere, is basically Egyptian combined with Anatolian roots introduced by the Sea Peoples who invaded Libya, while the written form of the language is like that of the Phoenicians, alphabetic but using only consonants. The records of the Bureau of Ethnology for 1891 disclose that Dr. Matilda Stevenson attended all the solar-solstice

ceremonies of the Zuni clans, winter and summer, in that year, and that she collected some cult objects. Her report (Stevenson, 1904) includes a number of photographs and paintings in which well-known solar-cult motifs of the Mediterranean type are visible on the altars, though she did not identify them as such.

For these reasons I examined the etymology of the Zuni language, using vocabularies that Bernard Leman located for me in the Widener and other libraries. The results of this inquiry convinced me that the Zuni tongue is largely derived from North African dialects, the linkage being very marked with Coptic, Middle Egyptian, and Nubian of the Nile Valley. While there is evidence of much loan vocabulary, too, from adjacent tribes (from the Algonquian dialects to the north and the Mexican tongues to the south), the main vocabulary in my opinion is North African.

My conclusion, then, is that the Zuni language should be reclassified as an American branch of the North African group, which otherwise comprises the belt of so-called Afro-Asian tongues of mixed Semitic-Hamitic origin, stretching from the Moroccan Berber area near Gibraltar across the southern coastlands of the Mediterranean to Somalia in the east, and including in former times the ancient Libyan, Ancient Egyptian, Coptic, and Ethiopian (Amharic) languages. In view of the discovery of ancient Libyan inscriptions in the places I have indicated, and the evident concentration of such few inscriptions as we have in the southern parts of the United States, I think it probable that the ancestors of the Shiwi people of Zuni are the same visitors from Libya who cut the ancient inscriptions.

During the 1930s excavations in New Mexico by a Harvard team and associated investigators, including Harold Gladwin, brought to light a previously unknown style of pottery now called the Mimbres ware, from the type locality of the find. The vessels are decorated in black, white, and red and carry paintings of people and animals, together with other motifs that have been regarded as merely decorative. However, in my opinion these motifs are actually derived from original inscriptions in the Libyan alphabet and descriptive of the scenes depicted in the paintings. Gladwin's dating of the finds by dendrochronology (tree-ring dating) indicates a date of about 1200 A.D. The question of the supposed inscriptions requires further study.

The illustrations accompanying this chapter suggest that among some members of the Zuni priesthood there persisted into recent historical times a vestige of the Libyan writing system, such that certain religious objects would be inscribed with "magic" symbols that are, in reality, the written Libyan words for those objects, as exemplified by the sun-disk inscription already mentioned.

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The principal evidence, however, of Libyan settlement in North America rests in the essentially North African word content of the spoken language of the Zuni people today. The matching pairs of words from New Mexico on the one hand and from North Africa on the other are so numerous, and the phonetic relationships so evident, that it is possible to set out the rules of phonetic mutation that govern the derivation of the Zuni language from its Libyan parent language. These phonetic rules are of the same kind as another series I demonstrated in 1973, linking the Libyan language with that of Polynesia. The Polynesian people, like the Libyans themselves, are descended from the Anatolian Sea Peoples who invaded the Mediterranean around 1400 B.c. and, after attacking Egypt and suffering a series of defeats as the Egyptians record, eventually settled Libya. Later the Libyan seamen were employed by the Pharaohs in the Egyptian fleet, and still later the Libyan chiefs seized control of Egypt to establish the Libyan dynasties. Thereafter Libyan influence spread far and wide, especially in the Indo-Pacific region, where the Egyptians mined gold, as in Sumatra. During the Ptolemaic period (after Alexander the Great conquered Egypt) Libyan seamen in the service of the Greek Pharaohs explored widely, some of them settling parts of the Pacific.

The foregoing inferences, based largely on linguistic studies, have forced us to discard the theory that traced the Polynesian settlements to supposed immigrants of uncertain origin in East Asia, for the early Polynesian inscriptions are essentially Libyan both as to the alphabet and the language. Linguists such as Professor Linus Brunner in Europe and Dr. Reuel Lochore in New Zealand have found this new interpretation to be consistent with their own researches into the sources of the languages of Malaysia and Polynesia.* It also explains the occurrence of Greek words in the Polynesian tongues. As Professor Brunner has pointed out, the Greek colonies in Libya used a dialect of Greek in which certain consonants replace those of Attic Greek, and it is in the Libyan form that the Greek words of Polynesia occur. The Anatolian elements in Polynesian have been the special study of Lochore, and these too are now seen to be consistent with a Libyan origin of the Polynesians, for we know from the ancient Egyptian records that Libya was settled by the Anatolian Sea Peoples.

If, therefore, my inference with respect to the Libyan affinity of the Polynesian tongues is valid, as appears increasingly likely (most recent support coming from linguists in Israel), I think that the equivalent evidence now coming from my studies of the Zuni language is likely to win support when the analyses are examined by linguists. (The Zuni

etymological dictionary has not yet appeared in print.) So it is in this context that I here propose a new view of the origin of the ancestors of the Shiwi people of Zuni. I think they are the descendants of Libyan voyagers who crossed the Atlantic some time before about 500 B.C.

AN ANALYSIS OF THE ZUNI LANGUAGE*

The Zuni tongue, with its apparently limited vocabulary (only some 1,200 words have been recorded) makes remarkably broad generalizations in the use of words. Thus ate, whose original Coptic sense is fluid, in Zuni serves also for blood; and the root employed to mean bleed matches another Coptic word having the basic sense to be red. A word of this kind is classed by linguists as what is called a stative (a part of speech implying a state of being). It is like a verb and adjective rolled into one. Another example of Zuni word economy is the use of a Coptic root with the original sense to be humble, now fulfilling in Zuni the role of a verb meaning to crawl. Again, a word that in Coptic has the sense to prick, in Zuni acquires the meaning to copulate, more or less as the ancient Anglo-Saxon used the verb prician, its modern use confined by convention to conversation between males. These features of Zuni speech suggest that it may have been derived from the limited and racy vocabulary in colloquial use on board Libyan navy vessels by conscripted fishermen or employed by Libyan seamen serving on the ships of Tarshish or Carthage.

The Mauri script proper to the Libyan tongue was probably brought to North America by the officers on board such ships. It seems doubtful if any literary work was brought to America, for the Bureau of Ethnology records do not disclose any ancient compositions among the Zuni that could be compared with the Creation Chant of the Pima nation. The subject, however, requires fuller study, for undoubted Libyan inscriptions in the Libyan script occur on cliffs and on land markers in states such as Oklahoma, as the explorations of Gloria Farley have demonstrated.

Loan Words. Modern Zuni speech contains numerous loan words derived from Spanish and English. A much older loan vocabulary is also evident from American sources. Examples are words like zi (hair) and ahha (take) from the Otomi language of Mexico; words like pu'a (break) and tachchu (father) from the Aztec language of Mexico; a few

^{*} See e.g. Brunner and Schafer, Malayo-Polynesian Vocabulary (1976).

^{*} A fuller treatment is expected to appear in the Occasional Publications of the Epigraphic Society.

other words such as *pilha* (bow) and *ma'* (well) from the Huasteca language of Mexico; also *pizulliya* (circle) and *lashokti* (car) from the Mayan language of Mexico. This Mexican element indicates former extensive contacts with the peoples of the south. Some northern contacts are also evidenced by words such as *moqqa* (shoe, sandal) of the Algonquian group.

Basic Vocabulary. This is essentially North African, comprising a large Libyo-Egyptian element similar to Coptic, to which have been added Ptolemaic roots brought to the Egyptian and Libyan lands by Greek settlers in the wake of the Spartan colonization of Libya in the eighth century B.C., and the conquest of Egypt by Alexander the Great and his successors, the Ptolemies, during the last four centuries B.C. There are also roots of Nilotic origin, probably introduced to the Egyptian and Libyan speech by Nubian slaves.

Phonetic Mutation. Over the course of time languages tend to change in accordance with rather definite rules. By comparing the original spelling of words in Coptic (which was written phonetically), and the present-day pronunciation of the corresponding words in Zuni speech, we can elicit the laws of phonetic mutation for the Zuni language. They turn out to be almost identical to those already demonstrated for the Polynesian languages, which are also derived from the Egypto-Libyan group, though with a strong Anatolian element (lacking from Zuni). These are the principal rules of phonetic mutation:

(1) Zuni consonants are the devocalized equivalents of the voiced African stops. In plain language, that means that the Zuni speaker never allows his larynx muscles to vibrate when he utters a consonant. As a result he does not pronounce Egyptian b as b, but makes it sound like p. Put your fingers on your larynx, and pronounce b and p; you will feel the vibration of the muscles each time you say b. So we call b a voiced stop, and p is its devocalized equivalent. Similarly, Zuni t replaces African d; Zuni s or sh replaces African z; and Zuni ch (like Spanish j) replaces African g.

(2) Voiced sonants of African words are retained in Zuni. This simply means that sounds like m and n in Egypto-Libyan do not suffer change in Zuni.

(3) Liquid sonants of African words (l and r) are represented in Zuni by l and lh.

(4) African semivowels (i, y and w, u) remain unchanged in Zuni.

Pure vowels were not written in ancient scripts, so we cannot say what changes, if any, may have occurred in these sounds.





Ancient Libya was a kingdom located around t shores of the Gulf of Sirte, to the west of Egy Its light-skinned inhabitants were drawn from t mixed population of Anatolian sea-peoples w invaded Libya around 1250 s.c., native Berbe and Spartan Greeks who settled the easte margin of the Gulf coast. The Greek influen persisted in the American Libvan settlements least until circa 1100 A.D. when the tortoise at le was painted by a Mimbres Valley potter in Ne Mexico. The Libvan language, written alphabe cally from left to right or from right to left, a also vertically, was used in New Mexico, as I painting of the American catfish, above, shows, I the three letters written on the fish spell the Liby Egyptian word N-A-R, meaning "catfish." T photograph has been printed in reverse, and this state the letters read from left to right. T painting is dated by tree-ring evidence to cir 1100 A.D. Top photo courtesy of Penbody Museu Harvard University, left photo courtesy of Gera Heslinga, Buffalo Museum

Sound	Style of Tunisia and Numidia	Style of Libyan settlers of lowa	Style of Libyan voyagers In Pacific (Ancient Maori)
b	⊙,⊡		
£	V, A	V	Г
d		1=	
w	11	11	11
2	m,-	171	_
t	m, \rightarrow	G	П
k	11		4, 11, 11
1	=,11	•	=,11
m		U	U
п	1	1	1
r	0,0,0,0	0	0,0
Ś	~	~	
A.1	٠, ١	٠	*,)
ı	×,+	×	×,+

Libyan inscriptions employ the above alphabet, but the language is nearly the same as that of Ancient Egypt. The language was first deciphered from North African bilingual Latin-Libyan tombstones by Fell (1973). Thus the Iowan text, originally found in 1874 and later condemned as a forgery, is in fact genuine, for it could not possibly have been forged. Other Libyan inscriptions have been found in Quebec, New Hampshire, Pennsylvania, and Oklahoma. They also occur on Pacific Islands and in Chile. On linguistic grounds Fell derives the Polynesian language from ancient Libyan (with some Anatolian and Asian elements). In North America the language of the Zuni Indians is also derived from ancient Libyan, and occasional Libyan alphabetic signs occur in Zuni art. Ancient Libyan was also written in the Mimbres valley in New Mexico 700 years ago.

Warring chiefs in Oklahoma left this record of the oldest recorded battle in American history. The Libyan script reads: (1) D-L-W (2) Z-H-M (3) Y-T-R-F (4) K-Y, Y-N, Y-H M-T. (5) H-R S-G (6) P-P D-G A-S (7) H-S-Y-I T-Sh. G. Inserting vowels yields this inferred translation: "Inscription for the victory by the river. (Chiefs) Kaya, Yana and Yaha were killed. The enemy commander, Pepe ('Butterfly') hid and took flight, (then) they retreated and gave up. (signed, ? G, illegible)." Some of the Libyan letters are known late forms, others resemble signs used for similar meanings in the Amerindian sign system, facts that suggest that the Battle of Yatrafa may have occurred after the time of Christ. Cloria Farley discovered this inscription in Leflore county, Oklahoma, some 6 miles from the San Bois River, cut on a large rock face, the eroded letters averaging about 4 inches in height. Gloria Farley



Libyan explorers found their way to Southern California, probably by sea landings on the Pacific coast, made from vessels sent out by the pharaoh Ptolemy III around 232 B.C. This inscription, discovered by Dr. Edward J. Pullman of the U.S. Exploration Company, is replicated from a rock on a mountain range adjacent to the Mojave Desert. It reads, left to right, from above downwards, S. R.-Z. W-R. Z-MT ("All Men, Take care, Take care, Great Desert"). The writing style shows some deterioration from the earlier inscriptions, and suggests a date perhaps several centuries after the time of Christ. The graver may have been a Zuni Indian, for the language of the Zuni today betrays its derivation from ancient Libyan. Joseph D. Germano



Chief Ras left this hilingual autograph to record his exploration of the Cimarron River in Oklahoma, probably around 500 a.c. Gloria Farley obtained this latex impression from a shelter under a rock overhang on the river cliffs. Above right, the Egyptian hieratic letters T-P (Chief). The eye symbol itself is the Egyptian hieratic word R-S ("Watchful"). The two Libyan letters, cut into the eye sign, also spell R-S. Bilingual Egypto-Libyan inscriptions in North America probably reflect the lasting influence of the Libyan pharaohs upon the Egyptian navy. In later centuries, when the Greek Ptolemics ruled Egypt, their Libyan queens continued to promote the interest of the navy, still manned largely by Libyan mariners.



Chief Ras, who wrote his name in Egyptian and Libyan on the Cimarron cliffs, also left another bilingual autograph in Libyan and Iberian Punic. Here, in a plaster cast taken from a latex mold by Gloria Farley, we see to the left the Libyan letters R-S ("Wakeful" or "Watchful") and to the right the North Iberian letters spelling his name in Punic Pa-Ya-K ("Early awake"). Here, as elsewhere in North America, the multilingual inscriptions attest to the mixed racial and linguistic structure of early American colonies. This autograph may date from around 500 B.C. Gloria Farley's outstanding discoveries in Oklahoma have made Heavener one of the major centers of research in ancient American epigraphy. Joseph D. Germano

America B.C.



"The elephant that supports the Earth upon the waters and causes it to quake," so reads the Libyan inscription on this votive tablet found at Cuenca, Ecuador, and replicated by Dr. Clyde Keeler. The Libyan script, in the finest style, matching that of King Masinissa's monument at Thougga, Tunisia, dates to the latter half of the third century before Christ. The letters read, from left to right, and from above downwards: A-B-Y G-B S-R-D M-T M Z-D. Aby is the ancient Libyan (and Egyptian) word for the African elephant, depicted above the inscription. Californian tablets, on the other hand, employ the ancient Sanskrit word Gaja, used in India even today for the Asiatic elephant. Thus knowledge of elephants was brought to the New World by voyagers from both east and west. Clyde Keeler and Malcolm D. Pearson

"A crew of Shishong the King took shelter in this place of concealment." So read the Libyan inscriptions found by Forrest Kirkland painted under a rock overhang of the Rio Grande cliffs in Texas. The two Ogam lines to the left read D-G (took shelter), and Z-D-H (hidden place). The Libyan letters read, left to right, S Sh-Sh-N-Q-A N-B (Crew of Shishong the King). Several kings of this name ruled Libya and Egypt between 1000-800 B.C., an era when North African voyagers began to explore the New World. Inscriptions such as this show that the Libyans made use of both the Ogam and their own native Numidian alphabets in writing the Libyan language.



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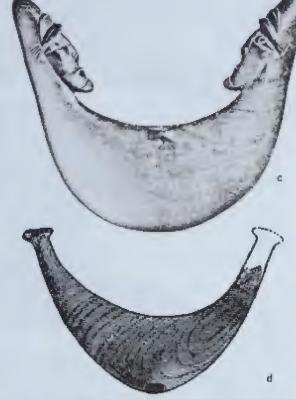


Gloria Farley, epigraphic explorer of Oklahoma and neighboring states, has made notable finds of ancient in scriptions left by Libyans, Celts, and Phoenicians who ascended the Mississippi, Arkansas, and Cimarron rivers. Upper left, Mrs. Farley lectures on her finds to archeologists and epigraphers at a Harvard gathering in 1975. Upper right, the record of a visit to western Oklahoma by Iberians, who engraved circular thunder bolt signs, and cut beside them (upper left of photo) the Punic word B-R-K ("Thunderbolt"). The photo shows cast of part of the Cimarron cliff where the record is cut. Below, a boundary marker of a Libyan colonist The inscription reads T N R-T ("Land belonging to Rata"). This also was found in Oklahoma. Peter J Garfoll and Joseph D. Germano



The Libyans of Zuni





The coming of the Libyans brought to the American seene North African cultural aspects that were also carried into the Pacific by other Lihyan explorers and colonists during the first millennium B.C., when the Pharaohs employed the Libyans as the mainstay of the Egyptian navy: a, the haircrest in this pottery figurine matches a Libyan and occasional Polynesian style; b, this pottery figurine from Arkansas represents a dried head, the eyelids sewn together, the lips contracted, a simple form of mummification also practiced by Polynesians; c, a Polynesian, and d, an American pectoral, derived from the Egyptian pectoral with a head of Ra at either cusp, an ornament spread abroad by Libyans (a,b,d, from S. D. Peet, The Mound Ruilders, 1892).

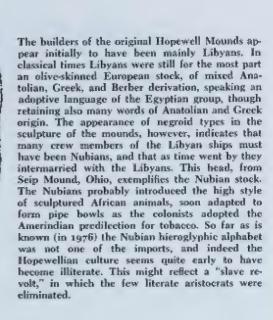


The Libyan colonists introduced into North America not only distinctively North African art styles and language, but also representations of African animals. The African elephant, carved to form a pipe-bowl, is one of several similar examples from lows; when oxiginally found in the Davenport mounds and in the neighboring areas, they were taken to be mastudons, and later dismissed as modern forgeries, since it was not then considered possible for foreign art to have entered North America before Columbus. From S. D. Peet, The Mound Builders, 1892

HOW THE PHONETIC LAWS WORK

By means of lists of words in matching pairs the laws are elicited and demonstrated. Complete lists cannot be given here for obvious reasons, but single examples will serve to explain the way in which the changes occur.

- r. Labials (consonants made with the lips).
 - African b becomes Zuni p, as in African toobe (pay) and Zuni tapi (pay).
 - African f becomes Zuni p or w, as in African fuka (pour) and Zuni po'ga (spill).
 - c. African p equals Zuni p, as in African Pukula (steam) and Zuni pokhli (smoke).



- Dentals (consonants made against the teeth).
 - African d becomes Zuni t, as in African dessew (shrine) and Zuni teshqi (shrine).
 - African t equals Zuni t, as in African ta (flat land) and Zuni ta (flat land).
- 3. Palatals (consonants made against the palate).
 - a. African ch equals Zuni ch, as in African chme (sow seed) and Zuni chima (sow wheat).
 - African ch can also become Zuni k or sh, as in African chol (honeycomb) and Zuni kali (honeycomb).
- 4. Velars (consonants made in the throat).
 - a. African g becomes Zuni ch, as in African gaba (assemble) and Zuni chapa (assemble).
 - African K becomes Zuni k or q, as in African koe (place) and Zuni kwe (place).
- 5. Liquid sonants ("tongued humming").

African I and r become Zuni I or Ih, as in African Iol (bed) and Zuni Ihelo (take a nap); African Iok (gentle) and Zuni Iika (gentle); African eri (go) and Zuni ela (move); and African hru (pleasing) and Zuni elu (pleasing).

- 6. Nasal sonants ("nose humming").
 - African m equals Zuni m, as in African mou (cat) and Zuni musa (cat).
 - b. African n equals Zuni n, as in African na (of) and Zuni na (of).

7. Sibilants (hissing consonants).

African s and sh equal Zuni s and sh, as in African she (go, move) and Zuni shi (go, move); and African sike (grind meal) and Zuni sako (ground meal).

8. Hamza (throat click).

The click or momentary pause is a sign of a discarded consonant in English dialects. For example the word butter is pronounced bu'er in many country dialects, and bottle becomes bo'l. The same rule operates in Zuni with respect to its ancestral African roots. For example, African ponk (pour out) and Zuni po'qi (pour out); African kya (water vessel) and Zuni k'a (water); African fukula (to burrow) and Zuni pok'a (rabbit).

9. Semivowels (y and w which intergrade with i and u).

 African w equals Zuni w or u, as in African waa (self) and Zuni waya (self).

b. African i and y equal Zuni i and y, as in African Itn (sun disk or Aten) and Zuni yati (sun); African eine (to be like) and Zuni 'ina (to be like).

Grammar of the Zuni language: This has many features recalling the Coptic language, but a discussion is impossible without going into great detail.

In ancient Numidia (part of modern Tunisia) the Libyans wrote from left to right, but in areas adjacent to Phoenician settlements, as in the neighborhood of Carthage, and in southern Spain, Libyans who settled there adopted the Semitic habit of writing from right to left. In southern Spain the Libyan immigrants adopted some of the southern Iberian forms of letters, such as the triangular sign used for the stressed semivowel aleph (accented a), and the mirror-image-D-shaped sign used for r. Thus the Libyan word for catfish, Nar, would be written raN by Libyan writers in southern Spain. Now it is a remarkable fact that on Mimbres pottery from New Mexico a painting of an American catfish occurs (genus letalurus, having 8 barbels, as opposed to the Libyan species, which has 5 barbels), and painted on the fish are the Libyan letters reading ral. This can only mean that Libyan settlers brought to America both the writing system and the actual word for catfish used in North Africa, and somehow the people of the Mimbres valley were using this around 1200 A.D. when the pottery was made. The case of the Atum sun disk has already been mentioned, and is another example of such transference. Another would seem to be the symbols woven into the kilt worn by the Hopi snake priest who led the snake dance of 1891. This kilt is now preserved at Harvard, and shows alternating symbols which may be read as the Libyan letters W-t repeated as a decorative motif. Is it merely an accident that W-t is the spelling adopted by the Egyptians (and presumably by

Libyans) for the name of the sacred serpent known to the Greeks as the uraeus, and worn by the Pharaohs as a forehead ornament symbolic of divinity? It is facts such as these that force us to recognize that Libyan writing as well as Libyan language must once have been current in some southwestern regions of North America.

The Druids of New England

N Chapters 5 and 6 it was shown that the New England Celts employed an Ogam alphabet of at least 12 symbols, identical with those used in Portugal and Spain in the late Bronze Age, about 800 B.C. The New England signs also carry the same sound values as those of the Iberian peninsula; when Iberian sounds are assigned to them, they yield phrases appropriate to their contexts. Representative words are given on the following pages.

The chances that two such similar events can take place independently can be calculated by the mathematical theory of probability. It turns out that there is less than one chance in 430,000,000 that identical 12-letter alphabets could arise independently in two unrelated civilizations. For the 17-letter Ogam alphabet of Monhegan, Maine, and Ireland, the chances of independent origin in these two places are less than one in 300,000,000,000,000,000,000. This is just another way of saying that there is zero probability of such a double event. In other words, the people who wrote the Celtic Ogam inscriptions of Iberia and Ireland must be the same people who wrote the corresponding inscriptions of New England. Thus there is no probability that the New England inscriptions are the work of Amerindians, unless the Amerindians should themselves be derived in part from Iberian Celts. This possibility is discussed in Chapters 16 and 17.

In this chapter I shall show that the nature of the buildings and other standing-stone constructions found in New England is such as to compel us to assign these objects to the labors of Europeans familiar with the astronomical discoveries of Mediterranean philosophers. They are in fact observatories, And as these observatories are often inscribed with Celtic



TABLE 5

Representative Vocabulary from Druidic Inscriptions

A selection of readings from old Ogam inscriptions lacking vowels (found mainly in Vermont, with some additions from other areas). All readings are to be treated as tentative, since the subject is still in the exploratory stage and decipherments therefore cannot be final. On the basis of Punic letters found on the same or related steles, this Celtic vocabulary is believed to date from about \$00~300 m.c. Thus it is much older than the oldest known British Ogam inscriptions.

AS WHITTEN	TO BE READ AS	MJ ANING
H	hi	to, preposition, lean word from Punic
8	bi, bigh	stone, stele, pillar
18 - 118	bab, pab	penis, phallus
8-0	THEFT	swell, let it swell, erect
H-E-E	Believe	from
B.H.T.	Brital	Raal, servant of Baal or Bel (proper name)
R-la-Ñ	Byanu, Beanu	Beanu (Goddess), Woman, She-of-the-yoni
H-L	Rel	Bel (Sun God)
B-T.	Indias	town, city
H-L-N	blian	loins (possible alternative reading for M-D-Ñ in eroded inscrip-
		tion)
B-L-T-Ñ	bealltuinn	Beltane (May Day)*
B-S	Isas	slain
11-11-11	hataleh	for the ships
C-D-H-H	cuidh	Cárgo
C-H	cah, gah	rays, heat
D	Dai	Dai (proper name)
D B	dubla	black, dack; Dark-haired (proper name)
D-G	degas, tegas	temple, covered building
D-[a-D	dayad	divine, of the gods
D-L-M	dalma	hold (also proper name)
D-M	Dam	stag (also proper name)
D-M D	damadh	stags, of the stags
F-[1	[:sa]	distance
P-G	faic	eye, to see, as in M-H-M-H B-L, G-L-N F-G, "Benevolent
1 - 6.1	Table	Bel, His eye is the sun."
F-M-L	fornor	sea-rover, pirate
F-N-C	Finici, Feniach	(1) Phoenicia (2) of the Feni (an Irish tribe)
G.	Gi?	Guy (proper name)?
G-B	Gabh	Gavin (proper name)
G-B-D-H	gabadh	peril, danger
G-L-Ñ	grian	Sun
G-M	gim	winter
EL	Hu?	Hugh (proper name)?
H-M	Ham	Ham (proper name)
H-M-H-L-G		observation
XI	ambang	eleven
Ia-B-G-G	hann-deug	Habakuk (proper name, Punic Joan word)
La-G-H-Ñ	labágag Luchan Fooban	Ewan
Is-N-D	loghan, Eoghan tanod	place, precincts, home
last-G-L-S		(of the) Lands Beyond the Sunset, America
langer of	fargalon	find, water, to inseminate
6.1 3 5 1	urksgge	mild, water, or rescuentiate

AS WRITTEN	TO BE READ AS	MEANING
L	Lu	Lew (proper name)
L-B-D	lebed	platform, wharf
L-D	lidh	grassy slope, green slope
L-G-H	Lughi	of Lug (proper name); could also be read as Righ, king, royal
L-H	Luhi	of Lu
L-Ia	l'attion	vent, chimney, vagina
L-Ja-G	Ling	stone, pillar, monotith
М	Mo	elder, senior (see M-B M)
M-B	mab	son, son of
M-B M	mab Moi	son of the elder; i.e., son of a father of the same name as the
M-B-M	Mabimes?	"Heroic" (proper name)
M-B-M-B-Ñ	Mabo-Mabona	"Hero-of-Heroes" (Celtic Apollo)
M-C, M-Q	mac, maq	son (of), Goidelic form not known from New England (see M.B.)
M-C-M, M-O-M	macamh	noble son (on Goidelie funeral stones of warriors)
M-G	muig?	fog, cloud (uncertain reading)
M-G-G	Magog?	proper name on stele (not yet found in New England, but occurs as place name)
M-H	mathair	seemingly abbreviation of word "mother"
M-H-M-H	math-math	good, benevolent
M-H-G	spinharg?	abbreviation of word "observation"
M-H-M-B	Mathair-Maho(na)	"Mother-of-Heroes" (title of goodless Byanu)
M-D-Ñ	meidhinn	loins, pelvis
M-la-B?	mabi?	of a son, for a son?; see S-la-M
M-la-L	meall	hill, mountain
M-S	mios	measure, measured
S-B-H	Seabh	Seabh (proper name, = Sorrel): (Vendée stele only)
S-B-L	siobal	fisherman (Vendée stele only)
S-G-M-B-H?	Sgiambhi?	(for) Fair-Haired (used as proper name)?
S-Ia-M	seam	prayer, petition; hence following
S-Ia-M-M-Ia-B	seam-mabi?	"our prayer for sons"? (cut on stele of Mother Goddess near you altar)
T-H	tuath	north

identifications, their builders must have been those Celtic philosophers who were called Druids.

In the second century after Christ an Illyrian geographer called Strabo wrote an account of the Celts in which he mentioned that their learned men were distinguished under three categories. These he called (1) Bards, who were responsible for composing, preserving, and performing music and poetry; (2) Vates, who were priests responsible for carrying out sacrifices to the gods; and (3) Druids, who studied natural science and philosophy.

Julius Caesar, after his invasion of Britain in 55 B.C., wrote an account of the Druids, in the course of which he said:

They have considerable knowledge of the stars, and of their motions, and of the dimensions of the Earth, and the Universe around. Also of science in general, and of the powers and spheres of influence of the immortal gods. These subjects they debute, and also teach to their young students. [De Bello Gallico, books VI. XIV.]

Modern studies of the megalithic monuments of Britain, such as the famous one at Stonehenge on Salisbury Plant, show that some of these structures served as astronomical observatories for regulating the calendar by the observation of the annual cyclic motions of the sun and other heavenly bodies, caused by the revolution of the Earth in its annual orbiting of the sun. Although there is uncertainty as to who actually built the megalithic buildings in Europe, it is certain that the Celts, the Druids in particular, made use of them.

Now, one of the most important findings of our work in Vermont has been the demonstration that certain megalithic monuments are related to

The Druids' Throne, on a hillside near South Royalton, Vermont. The Ogam letter D (formed from two vertical strokes) is carved into the apex of the stone block, overlooking the countryside for miles around. Similar but smaller stone thrones have been found in New England from Long Island Sound north to the Canadian border. John Williams, Joseph D. Germano



astronomical functions of a like nature to those of Britain and other parts of Europe, and that some of them carry Celtic inscriptions referring to their astronomical functions. In this study Byron Dix, an astronomer, and I have collaborated, But before he and I were able to define these functions for the Vermont monuments, Robert Stone of North Salem, New Hampshire, had already done the pioneering investigation at Mystery Hill. Here, even before any inscriptions had been found at all, Bob satisfied himself that an observatory existed on the site he studied.

Let me introduce the subject by quoting from my field diary of last summer:

June 21, 1975, Grian-stad of the Gaels, Midsummer Night, about 7:30 P.M. A reverent hush falls over Mystery Hill as the waiting assemblage of watchers follows the slow decline of the sun. We are participants in America's most ancient ceremonial, the scientific regulation of the calendar. No Ogam inscription has yet been found here, yet my thoughts inevitably turn to Caesar's account of the Druids. I am reminded also of another summer sunset I witnessed on Celtic soil, when the glowing disk sank behind the silhouetted Hebrides, and all the peak of Quincag behind me gleamed like fire.

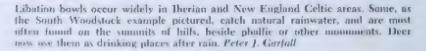
It was Bob Stone who first discovered the solstice monoliths in 1065, and we are his guests on the tenth anniversary of the find: Midge Chandler, Norman Totten, Peter Garfall, Rene and myself, with other visitors and many of the local people of Derry and North Salem. There are parents, grandparents, children of all ages, all gathered here at the appointed hour, waiting and watching. New arrivals appear from the woods, others join us from time to time from the slopes below or emerge from silent ruins. Soon only the photographers continue to seek better vantage points, the rest of us content to stand and wait. As I look at the children among us, even a babe in arms, I cannot help thinking how close a parallel our group must present to so many ancient gatherings of the tribe on this same hill, to witness the same event we are now seeing. And I think too, of the Pima and the Zuni in the dry lands of Arizona and New Mexico; for it is the first day of their four day midsummer festival, and although sunset comes three hours later for them, already the makai of the sun god will have set his sights upon the magic mountain where they, too, will see the sun meet the horizon at the appointed notch at the appointed hour.

And then, so swiftly it seems over before we fully comprehend it, the solar disk comes down, touches the tip of the monolith now silhouetted in black, and disappears into the fiery afterglow. As we slowly make our way down through the woods in the darkening twilight I think we are all conscious of the unseen presence of those shadowy observers of long ago who had seen the identical event that we had witnessed, and whose bones, or what remains of them, must lie buried in the soil somewhere near at hand. I remark to Bob, "I believe the day will come when such crowds will gather here that you will have to issue tickets for reserved standing room only."



Standing stones, as isolated monoliths or in linear or circular groupings, are characteristic features of all Celtic lands. Some served as astronomical markers of the risings or settings of the sun on certain dates, others as memorials of events or persons. The largest example (above) is at Kerouezel in Brittany, where 5000 such stones (called menhirs) are known. The lower illustration shows a triangular form near South Royalton, Vermont. Some Vermont examples are carved to the same four-sided tapering shapes as the Kerouezel monolith, but are now lying prostrate. Joseph Dechelette, Joseph D. Germano









Discovery of the Beltane Stone at Mystery Hill, August 31, 1975. In 45 B.C. Julius Caesar instituted throughout the Roman Empire a new reformed calendar devised by the Greek astronomer Sosigenes. The date of the spring equinox was now set at March 25, and the new year was set to start on January 1. The Celts of New England, however, retained the old Celto-Greek New Year that began on the day of the spring equinox; in other respects they followed the revised Roman Calendar, presumably in order to facilitate business arrangements with overseas traders from Spain and Portugal. May 1, the great Mayday festival of the Celts, called Beltane, now fell on the thirty-ninth day of the year, a fact recorded in the Romano-Celtic inscription on the stone at Mystery Hill. Owing to changes in the earth's axis (called precession) the equinox day has since moved forward to March 21, so that Beltane now falls on day 43 of the Celtic calendar. Hence the Beltane Stone dates from about the time of Christ, when the Mayday festival occurred on day 39 of the New England year. In the picture are Daniel Leary (left) who found the stone, Osborn Stone, and Fell. The inscription, reading in Latin numerals XXXVIIII LA (Day 39) is shown below. The fallen monolith, now in the Mystery Hill museum, once formed a part of the calendar circle, it is inferred. Peter J. Garfall; Fell and Germana







Rings of stones, either single or double, and varying from ten feet in diameter upwards, are common in Ireland, and are also known from New England. Giant rings of the Stonehenge type are peculiar to Britain. The function of the rings is not known, though some of them may merely have been fences around house sites or graves. They are commonly called Druids' circles, and it is possible that some at least were used for religious or magical rites. The upper picture shows a double ring in Gunjiwaump, Connecticut, The middle photo shows the so-called Running Deer engraving at Mystery Hill, New Hampshire, discovered by Malcolm Pearson in the 1930s. It may represent a Druidic costume made from a deerskin, the tines cut away from the antlers as in the rock painting (left) from Spain, depicting a priest cutting the mistletoe from the sacred oak, Sentiel Rommel, Fell, and Peter I. Garfall

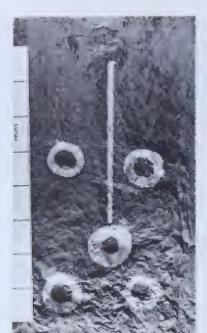




Druidic cupules—1. Cupules (or cup marks) are small hemispherical depressions, usually in groups, cut into rocks or into stone blocks that form part of the masonry of temple buildings. Above is a masonry block of the temple of the Eye of Bel, near South Royalton, Vermont. Below, a cast of a series of four cupules on a block in the porch of the south-oriented lower temple on the hill above Elephant Valley, Vermont. The function of cupules is unknown, but they characterize Celtic sites in Europe and New England. Shortly after the lower series of four was observed in Vermont, an illustration of an almost identical series in Portugal was brought to Boston by James Whittall from his second Iberian expedition. Fell and Joseph D. Germano



Druidic cupules-2. Cupules are occasionally arranged to form star maps. Above, constellations around the north pole, engraved on 20-foot monolith (now recumbent), South Woodstock, Vermont. On the left is part of Cassiopeia; in the center, the present polestar; upper right is Ursa Major. The drawing is by Dr. Fernando Lanhas, Museum of Ethnology, Porto, of cupules found at Montedor (Viana de Castelo), northern Portugal. This Portuguese version is apparently a map of the same region of the sky, but seen in mirror image (the mapping convention depends upon whether one transfers to the engraving the arrangement of stars as seen by looking up at them, or as seen by projecting them from the sky to the map). Top, cast by Fell, photo by Peter J. Garfall; bottom, drawn by Dr. Fernando Lanhas, Porto





Druidic cupules—3. Druidic mathematical and religious charts from chamber site, South Woodstock, Vermont, showing the meridian and the relative positions of the Central observation site and the four major calendar regulation azimuths employed by the Celts both at Mystery Hill observatory in New Hampshire and in Vermont. In the diagram on the left, the azimuths, in clockwise sequence from the meridian, are: midsummer solstice sunrise, midwinter solstice sunrise, midwinter solstice sunset, midsummer solstice sunset. The meridian points due north. These correspond to the five major standing stones at Mystery Hill. On the right, the same basic azimuths are set out, but the whole has been enclosed within a square outline, to simulate a tortoise, a sacred animal of the Celts. The tortoise may also be seen to comprise a monogram formed from the Greek letters CHELONE (tortoise). Hence it is possible that this diagram is originally of Greek origin, but serving as a mnemonic of the solstice directions. Cast by Fell, photo by Peter I. Garfall and Joseph D. Germano

Before 1965 no one suspected that an ancient astronomical observatory could have existed here for 3,000 years. In that year I was beginning my decipherments of ancient inscriptions from the Far East, soon to lead me to study the previously unsuspected Persian astronomical observatory of Mount Lavu in eastern Java: little did I know that barely 30 miles from Harvard a fellow spirit was stumbling upon a similar discovery in America. I asked Bob to recount for this book what he remembers of the circumstances, and this is how he tells it:

In 1964 I noticed many large standing stones in the woods around the site, and the following year I theorized that they might have had an astronomical function, though I had no idea as to how correct this was to prove. My first

The Druids of New England

suspicion was that the area around the so-called Table of Sacrifice might be the primary viewing site, and that the standing stones might mark positions of sunrise and sunset for particular days of the year, significant perhaps for the unknown people who had built the site.

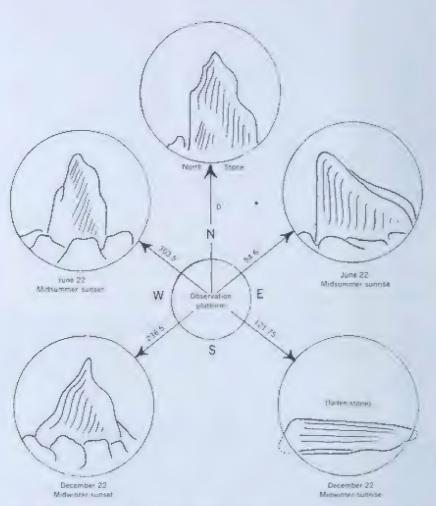
So I began to cut swaths through the woods to make it possible to see the standing stones from the central sacrificial area, also to bring into unobstructed view the horizon beyond the stones. Using a transit telescope and a compass I began to realize that some of the stones at least had a definite relationship to important astronomical axes.

On December 21, 1970, after four consecutive years of work, the sky remained clear and we now observed the sun slowly descending towards the monolith that we had recognized as marking the solstice. From the viewing area near the sacrificial table, some 500 yards away, we saw the sun above the monolith, behind which it then set. Later researches showed that some of the stonework in the viewing area had been removed by William Goodwin, and that the true viewing position had apparently been a stone platform 30 feet to the north of the Table of Sacrifice.

Robert Stone will surely be remembered by archeologists for this basic discovery, for it was the first clear indication that the ruins on Mystery Hill are indeed the work of a people who regulated their calendar in the same way as the builders of the megalithic sites of Europe. Bob enlisted the aid of his cousin, Osborn Stone, in identifying the other principal monoliths, and radially arranged avenues were cut through the woodlands to give clear views. This work is still continuing. The winter sunset

Winter solstice, chamber at South Woodstock, Vermont. Joseph D. Germano



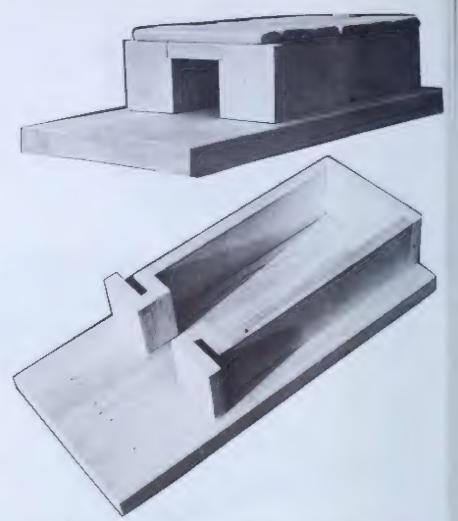


The Calendar Circle at Mystery Hill, New Hampshire, a Celtic astronomical observatory still in process of extrication from the forest overgrowth. The azimuth angles shown are those actually demonstrated by a transit telescope without special leveling, the mean deviation from the calculated values being even so only some minutes of arc. Compare this chart with the Druidic cupule charts on page 203. (Drawn by Fell, with practical aid from Osborn Stone; the stones shown in the circles are as they actually appear in the telescope field when sighted from the observation platform. November 1975.)



Equinoctial sumrise temple observatory, dedicated to Bel, located at South Royalton, Vermont, modeled by Peter J. Garfall from sketch plans by Fell and Castleton College students. The main temple area, or cella, lies behind the narrow east porch, which constitutes the observatory chamber. The cella was partly destroyed by colonial farmers who tore off the lintel slabs for other purposes and caused the walls partly to collapse. The east porch is still intact. Its lintels terminate about 12 inches from the end of the porch walls, suggesting that the first lintel is missing. This, however, is not so because (1) the exposed face of the existing first lintel carries the dedication inscription and (2) the shadow of the lower edge of the outer lintel coincides at sunrise with the inner end of the observatory porch on the two equinoctial days, March 21 and September 21. This is because the temple, oriented to the east, faces a range of hills whose elevation above the horizon falls on the same line of sight as the line joining the lower edge of the listel to the inner end of the floor of the equinoctial porch. Presumably priests and nobility observed the event from the cella, while the other members of the tribe did so from the forecourt. Joseph D. Germano

The Druids of New England



Chamber, South Woodstock, Vermont, modeled by Peter J. Garfall from sketch plans by Fell. The main chamber, or cella, is twenty feet long, and roofed by single slab lintels, each spanning the entire width of the cellas, namely 115 inches. The long axis of the temple is directed to the midwinter sunrise point, at horizon azimuth 123° which, at 43.5° N latitude, corresponds to the sun's southernmost limit of minus 23.5° declination. At sourise on December 22 the sun is seen to rise in a notch in the distant range of hills when the viewer stands at the altar at the west end of the temple, looking out between the pillars on either side of the southeast front. Byron Dix, an astronomer investigating the orientation of these temple structures, finds that the angle subtended by the pillars to a viewer at each of the west corners of the cella yields an angular measure of the moon's 18.6 year metonic cycle, and hence could be used for predicting celipses. The building is therefore essentially an astronomical observatory, though the dedications to various gods found on the lintels led us to refer to it as the Pantheon. The cycle of the Moon was discovered by the Greek astronomer Meto about the year 413 B.C., so this building must date from after that time. It is the largest and most sophisticated of all the Celtic stone buildings so far discovered in North America. Joseph D. Germano

solstice stone now stands in clear silhouette at the end of its avenue, and the sun can be observed setting behind it on December 21, when snow usually covers the ground. Byron Dix studied the Mystery Hill findings, and then began to bring to light comparable but larger calendar sites in central Vermont. One of these, which he calls Calendar Site Number 1, is located high on the hills near Elephant Valley. Another, Site Number 2, is located on a hillside at South Woodstock, near the large temple that we are calling the Pantheon.* An important contribution made by Byron in 1975 was his dicovery that the calendar used by the people who made the Vermont sites was divided into eight parts. He announced this on August 30, 1975, at the same joint meeting of interested societies at which I announced that the megalithic structures were Celtic, based on the Ogam inscriptions I had deciphered.

The next significant find was made by Daniel Leary of the site staff at Mystery Hill. On the day following the conference Bob Stone informed me that a new stone had been found with an inscription unlike any we had seen up to that time and so, with Gloria Farley of Oklahoma and John Williams, I visited the site the following evening. The inscription was partly concealed by an overlying monolith, which we then lifted to disclose a stele inscribed in Roman numerals and Ogam letters, reading in translation DAY XXXVIIII. My first comment as we examined the inscription by flashlight was to translate the writing and then immediately to ask, "Can anyone think of anything important that occurs on the thirty-ninth day?" For the time being none of us could figure the answer. Thirty-ninth day of what, or after what? So I took an aluminum peel and went back to Massachusetts to consult ancient calendars. The answer to the problem became apparent so soon as I encountered the Roman records of the calendar reforms effected by Julius Caesar. And at the same time I realized the explanation of why Byron Dix was finding an eight-part division of the year on his Vermont calendar sites. Instead of retracing the steps in my inquiry it will be clearer if I give here the results of it.

The purpose of the monoliths on our Celtic sites is to regulate the calendar, as Byron had already inferred even before he knew that the sites are indeed Celtic. The Celtic year was divided by the Druids into eight parts by the following system which seems originally to have been derived from a calendar used in Greece, instituted by the philosopher Hippocrates and apparently carried to Catalonia in southern Spain by the Greek colonists there. This Hippocratic year began on the day of the spring equinox, in March. Other important dates were supplied by the summer solstice (when the sun reaches its furthest northern declination,

^{*} Pantheon, because the names of the several Celtic gods occur on its lintels.

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 $\pm 23\frac{1}{2}^{\circ}$, in June); then the autumn equinox, in September; and then the winter solstice, the sun being at its southernmost declination of $\pm 23\frac{1}{2}^{\circ}$, in December. Between these four dates, each of which marked the midpoint of the corresponding season (spring, summer, autumn, winter), there were arbitrarily selected four more dates, marking the onset of each season. Thus spring passed into summer on May τ , which the Celts called Beltane, and dedicated to the sun god Bel. The three other intermediate dates similarly marked the onset of autumn, winter and spring.

In 45 B.c. Julius Caesar (himself the author of a lost book on astronomy) appointed the Greek astronomer Sosigenes to advise him on how to reform the Roman calendar, and Sosigenes recommended in effect that the Hippocratic Greek system be adopted. This system was based on the annual motions of the sun and ignored the old moon calendar because the number of moon cycles (or months) does not divide equally into the solar year. The residual odd days had always been a source of difficulty to ancient calendar makers, who found that fractions of a month were left over at the end of the solar year (based on the 365‡ days required by the Earth to complete one revolution about the sun). The new calendar of Sosigenes set the spring equinox on the 25th day of March. As this socalled Julian calendar was instituted throughout the Roman empire, the Celts of Gaul and Britannia and Hispania (Spain) were obliged to accept it. The Iberian Celts, however, accustomed to starting the year on the day of the spring equinox, accepted the new calendar but continued to reckon the spring equinox as its starting point, as their religious beliefs apparently demanded. Thus May 25 now became New Year's Day. As a result, the great festival of Beltane was now found to occur 39 days after the spring equinox, counting by Latin reckoning, and so became Day Thirty-Nine.

It was now clear that the stele Danny Leary had discovered on Mystery Hill is the marker of Beltane in the Mystery Hill observatory. As already noted, it was found prostrate, overlain by another stone; although we do not yet know how it was employed, or whether it merely recorded an important religious festival held at the place where it lay, it is obviously part of a Druidic observatory.

The fact that this stone carries Roman numerals is important as dating it to the Roman period that began for Iberia in 160 s.c. The fact that the numeral 9 is expressed as VIIII instead of IX is interesting, for that is also how 9 is written in all the calendar dates on the only other Celtic calendar inscription that has ever been found, namely the calendar of Coligny, in France. And lastly, the match with the reformed calendar of Sosigenes is also significant for it now yields the latest known date of occupation of Mystery Hill as roughly the era of the time of Christ.

You see, owing to the movement of the axis of the Earth called *precession*, the date of the equinox becomes progressively earlier and earlier, moving forward one day about every four centuries. Thus, whereas Sosigenes set the spring equinox as March 25, by about 300 A.D. it had moved forward to occur on March 24. Nowadays it occurs on March 21, by which modern reckoning the date of Beltane (May 1) has now changed to DAY XXXXIII or Day 43. So, by recognizing Day 39 as Beltane, we are in effect dating the stele to the era of the early Roman empire, after 46 B.C., but not later than about the third century A.D.

The occurrence of Roman numerals, as well as evidence of Sosigenes's calendar reform of 45 B.C., shows that the New England Celts continued to maintain a shipping connection with the Old World well into Roman times. Their acceptance of the reformed calendar is not a measure of servility to Rome, but surely an acceptance of the inevitable, namely the calendar that all their visitors and customers used. How could one have furs or other salable products at the cargo loading platform on the correct date if one party used an entirely different calendar from the other? Just as members of the Hebrew and Greek Orthodox religious communities in America today use our universal calendar, yet nonetheless reckon the beginning of the New Year at varying dates according to religious precepts, and just as the Arabic year count is hundreds of years out of kilter with the Christian reckoning, though both Arabs and Christians still employ identical annual calendars, so also could the Celts in Iberia or America conform to Caesar's edict, yet still maintain their religious festivals in accordance with ancient custom.

And now, having introduced the topic of religion, let me stress that the Celtic calendar was undoubtedly connected intimately with the Celt's religious life. There are several cogent reasons for believing this. They are:

(1) The long axes of the temples of the gods coincide with major axes of the calendar sites. This can only mean that particular religious festivals were held on days determined by the solar calendar; that is, on days when the sun was seen to be aligned with a particular dating monolith, those of the solstices and equinoxes apparently being the most important.

(2) Celtic tradition in Britain still keeps alive the names of the ancient festivals and the dates on which the festivals were held. These are seen to match the eight-part calendar of Sosigenes. Since Christian times, the function of the festivals has been assigned a Christian significance, but some pagan elements persist nonetheless, more or less glossed over. (3) Each Celtic center in Vermont seems to have its own calendar site, as if the calendar site was itself the place at which a religious meeting was held. For otherwise it would have been enough to have had one good calendar site, from which messages could be sent out to outlying villages, setting the dates for the festivals, just as nowadays we are all content to follow the calendars determined by a few major national observatories.

America B.C.

To see how the calendar site was employed we have only to visit the Zuni people of New Mexico. Here certain notches and excrescences along a mountain chain are identified as places where the sun will rise (or set) on important dates, in this case the summer and winter solstices. A special magician or priest is appointed to act as the calendar-regulator or sunpriest. His job is to observe the sun regularly and to estimate some days in advance when he expects the sun to reach one of the solstice points. As soon as he has made a determination, he sends out messages summoning the subtribes to the winter solstice festival or summer solstice festival, as the case may be. This is a simple version of the Celtic system, having only two annual solar festivals. The Celtic system, employing eight festival dates, must have operated in the same way. However, studies by Byron Dix, still in progress, show that the Vermont sites have additional stones oriented in a manner that implies that the Vermont Druids also made a special study of the motions of the moon as well as the motions of the sun. Byron believes that his researches may eventually show that the New England Druids had a means by which eclipses could be predicted.

The Celts of Britain have never entirely forgotten the 8-part calendar of ancient time. Several academic holidays used to puzzle me when I was a student at the University of Edinburgh, For example, bonfires were lit on the second Monday of November, a relic of the old Celtic harvest festival of Samhnag, later Christianized to Martinmas. In February the first and second Mondays were called Candlemas and Mealie-Monday, when the students in the olden days went home to collect a bag of oatmeal; these apparently are a retention of the old pagan festival of Imbolg. In America the night of October 31, called Hallowe'en, is a fossil Celtic festival originally called Samhain (pronounced "Saven"), marking the start of the winter and the end of summer, supposedly a period of transition during which the souls of the dead and certain spirits of nature were free to wander across the world. It is possible that the English phrase "Witches' Sabbath" arose from the Celtic word Samhain by folk etymology, and that the phallic temples on the tops of Vermont hills were frequented on the nights of Samhain, If so, then the witches of Woodstock must have been singularly hardy to dance in the nude in so chilly a location.

As this book goes to press, Byron Dix informs me that he has just completed a computer analysis of the dates of the Vermont Celtic calendar implied by standing stones.* In the following table I have set out his computed dates for the Vermont festivals against the corresponding names and dates of the European Celtic calendar. As can be seen, the American and European calendars are essentially identical.

TABLE 6

Comparative Table of Celtic Festivals for Europe and North America in Pagan Times

Christian equivalent names given in parentheses. In ancient times the two solstices and two equinoctials occurred on the 25th day of the month, but on account of the precession of the equinoxes, these dates have now moved forward to about the 21st or 22ml day.

NAME OF FESTIVAL	DATE OF CELLBRATION BY CELTS OF EUROPE	COMPUTED DATE OF CELEBRATION BY CELTS OF NEW ENGLAND
Cu-thad-thrath	March equinox	March equinox
Bel-tuinn (Beltane)†	May 1	ca May 1 (Day XXXVIIII)
Grian-stad	June solstice	ca June solstice
Lugrasadh (Lammas)	August 1	ca August i
Co-thad-thrath	September equinox	ca September equinox
Samhain (Hallowe'en)	October 31-November 1	ca November 1
An Fheill-Shlinnein (Shoulderblade) \$	December solstice	ca December solstice
Imbolg (Candlemas)	February 1	ca February 1

[†] From studies by Byron Dix. Most dates approximate.

It is a well-known precept in education that the most important thing to do in any study is not so much to memorize facts, but rather to know what to look for and where to find it. As I mentioned earlier, not one Ogam inscription had been found at Mystery Hill before the summer solstice of 1975. Yet, after witnessing the dramatic proof of Bob Stone's conception of the monoliths as calendar markers, I now felt convinced that Celts were connected in some way with the building of the site. The similarity of the name Baal on the Phoenician dedication stone to the name of the Celtic sun god Bel recalled earlier suggestions by etymologists in Europe that the Celtic and Phoenician names of the sun god might be cognate. So, when the first Ogam inscription was uncovered nineteen days after the solstice assembly, my own reaction was more of jubilation than surprise. Our eyes were already alerted to look for Ogam and we found it, not only at Mystery Hill but all over the Vermont calendar sites as well.

[#] Translation or transliteration,

^{*} To be published in volume 3 of the Occasional Publications of the Epigraphic Society.

The Druids of New England



Elizabeth Sincerbeaux with equatorial adjusted by Byron Dix to point to the sunrise point on December 22, the winter solstice as seen from the metonic porch of the highest temple-observatory at South Woodstock, Vermont. Dix's researches, together with the dedication inscriptions deciphered by Fell, yield mutual confirmation that the stone slab buildings of New England were erected by Celts for calendar regulation and for religious exercises connected with the worship of the Sun God and other Celtic divinities. The building of so many substantial stone buildings (over 200 are now recorded) shows that the work was done by permanent colonists from Europe, and that New England was occupied by Celts as early as the first millennium n.c. Reiterated claims that the buildings are "root-cellars" made by colonial farmers during the seventeenth and eighteenth centuries must be dismissed, though it is true that some of the stone buildings were converted to mundane uses by those settlers who discovered them on their property. Most, unfortunately, were destroyed and their stone fabric converted to other uses. Byron Dix

Unlike the anonymous calendar stones of Europe, our American stones now began to yield up their Celtic names, telling of their functions. On monoliths that marked important points in the solar observatories we now recognized the faint but still legible Ogam letters that confirmed the purpose of the stone. And, as if to stress the function for people who might not be able to read Ogam, the strokes of the text were often

engraved in such a manner to suggest an eye, perhaps the eye of the observer himself, or perhaps the eye of Bel, the poetic Celtic name of the sun, as we now learned from the inscriptions on the temples of Bel. From various parts, including districts miles away from Mystery Hill, finders were now recognizing the symbol of Bel, and small inscribed triangular stone plates that had hitherto baffled us we now perceived to be pilgrims' offerings, probably purchased as they entered the Mystery Hill precincts and then deposited as votive offerings at the altars. Osborn Stone and his assistants, their eyes now sensitized to the tell-tale traces of frost-worn Ogam, sent in a stream of reports of new finds. The era of mystery was now giving way to one of dawning comprehension and wonder.

Dr. Clyde Keeler came up from Georgia to examine the collection of casts of the inscriptions, familiarized himself with the Ogam alphabet and, with his artist's eye and fingers, soon found ways of perpetuating the new-found motifs in ceramic medallions and pendants whose glowing colors would have delighted the ancient Gauls. Thus it was, through the archeological interests of a medical geneticist, a national art form was created from the age-old stones of the American Celts. Some of Clyde's charming ceramics lie beside me as I write, valued mementos of memorable days and of the friends who shared them.

Byron Dix is still engaged on his analyses of the Vermont astronomical structures, but by the time this book appears in print he will have reported on his main findings in formal technical papers published by the Epigraphic Society (see Bibliography). Some of his forthcoming reports may, however, be briefly summarized here.

First, as to the manner in which he discovered the eight-part division of the New England Celtic year: this was done by computer analysis, as follows. From the central observation area on Calendar Site Number 1 he noticed the presence of distant standing stones and, making use of an astronomical instrument called an equatorial, he first determined the declination of that part of the sky that touches the horizon in the same direction as each of the standing stones. By declination is meant a sort of latitude, used in plotting the positions of stars on the celestial globe, with the celestial pole numbered 90° and the celestial equator 0°. He then programmed a computer to calculate the declination of the sun for every day of the year and compared the results with his observations of the standing stones. He found that the standing stones mark intervals of about 39 to 43 days, spread through the year. In other words, for a year that begins at the spring equinox, there is a stone to mark the position of sunset or sunrise for that date; then another stone that marks the position of sunrise or sunset some 30 days later; that is, May 1 or Beltane, then another for the June solstice, and so on. It was clear evidence of the existence in New England of a Celtic type of calendar similar to that of

Hippocrates and Sosigenes. The finding of the Beltane stone at Mystery Hill later in the season added clarification to Dix's findings, as already noted.

The second of Byron Dix's important findings concerns the orientation of the long axes of the stone temples of Vermont, as I have already reported in Chapter to. Anyone may check Dix's findings in a simple way, by taking a magnetic compass into the Pantheon at South Woodstock and noting that the long axis of that temple does indeed lie along the intercept of the eastern horizon with the compass bearing in the southeast-by-east direction, which lies very near the celestial declination —23½°, the southernmost limit of the path of the sun through the sky; that is, the winter solstice sunrise point. Given this approximate correspondence, seen by only a crude instrument, I have no reason to doubt the correctness of Dix's more accurate determination made with an equatorial.

But Dix has gone further than this. He now finds that the diagonals of the Pantheon chamber intercept the horizon at points corresponding to the greatest and least southern limits of the moon in the course of what is called the Metonic cycle. The moon revolves about the earth in such a manner that its orbit sometimes carries it to a position some 5° south of the maximum southern limit of the sun, and at other times to a position 5° north of this. A period of 18.6 years is required to carry the moon into every possible position it can occupy with respect to the sun. This Metonic cycle of 18.6 years is the period that elapses before all possible eclipses begin to repeat in sequence, and it was discovered in 433 B.c. by the Greek astronomer Meton. There are, however, some newly found data (in Europe) suggesting a much earlier date of discovery.

So we learned how the Pantheon's dimensions are designed to register these events. From this we can infer two important things: (1) the date of construction of the Pantheon at South Woodstock is unlikely to have been earlier than the date of the discovery of the Metonic Cycle in Europe, and (2) since the Celts are unlikely to have had the mathematical ability to calculate these positions, they must have determined them empirically, that is to say, by actual experimental observation of the moon over a long period. In other words, the building of the Pantheon was probably carried out over a period of at least nineteen years. Having once constructed the Pantheon to these specifications the Druids could use it to keep watch on the motions of the sun and the moon, and they probably used them for predicting eclipses. All this information provoked astonishment when it was described to audiences or visitors.

The sophisticated science that these buildings and stone observation posts imply also argues in favor of a comparably advanced system of navigation at sea, using instruments similar to the astrolabe or to the torquetum that Dr. Sentiel Rommel and I described last year from

Libyan inscriptions found in a cave in West Irian, dated by a solar eclipse to November of the fifteenth year of the reign of Ptolemy III (232 B.C.). It is likely that the Libyan equipment, of which Rommel has now constructed replicas, very much resembled whatever corresponding equipment the Phoenicians and Celts must have used in voyages across the Atlantic.

In preparing material for this chapter I have followed the evidence of Julius Caesar in assigning to the Druids the roles of scientist and natural philosopher. But many people associate the Druids with other roles, those of priest and poet. As noted above, the geographer Strabo distributed these tasks among other officials, the Vates and the Bards. Of the Vates we know almost nothing, for their religion was virtually expunged by Roman governors who were disgusted by human sacrifice, and what the Romans left, the Christians took care to eradicate.

In the Western Isles of Scotland some traces persist of the prayers or incantations of the Vates, though usually with some Christian gloss added, so that the fisherfolk who utter these ancient words do so in the belief that they are sanctioned by the kirk or by Rome. But their similarity to the graffiti found on walls of caves frequented by ancient mariners leads me to assign them to the pagan era. Another curious point is that when Alexander Carmichael was collecting Hebridean material he reported that some of the prayers were never uttered in the presence of a stranger to the isles. The phraseology of the following prayer is, in my opinion, pre-Christian, and perhaps stems from the lips of the Vates. It is to be said upon rising in the morning:

A Righ na gile 's na greine, A Righ nan reula runach, Agad fein tha fios ar feuma, A Dhe mheinnich nan dula.

O King of the moonlight and of the sun, O King of the stars mysterious, Yourself aware of our needs, O merciful God of Nature.

The crescent of the new moon evoked prayers from hunters in ancient time, for they saw in this the symbol of Diana the Huntress. The Celts of the Hebrides are sailors, not hunters, and they have preserved an ancient mariners' invocation to the new moon as a guiding star signalling the western direction. It is certainly pre-Christian in spirit and in wording, for the Hebridean sense of the word I here translate as "lady" is actually "lady of easy virtue." Only the most innocent of priests could here suppose the prayer to be addressed to the Virgin Mary.

Failt ort fein, a gheallach ur, Ailleagan iuil nan neul! Failt ort fein, a gheallach ur, Ailleagan cumh nan neamh!

Hail to thee, O new moon, Precious beacon-of-the-clouds! Hail to thee, O new moon, Precious Lady-of-the-heavens!

Of the Bards we have vastly more information, in the shape of the traditional poetry, music, and epics of the Welsh and Gaelic peoples, and much also from the other Celtic lands. The music is famous especially for the plaintive airs, those of the Scots Highlands and of Ireland being especially known in English-speaking countries. The Celtic preference for stressing the first beat of a bar imparts a rhythm similar to that of the trochaic verse meter used by Longfellow in *Hiawatha*. This, however, is a topic more suitable for the spoken media.

To summarize this chapter, we find in New England some two hundred stone chambers, many of which are oriented and constructed in such manner as to make them serve as astronomical observatories for the regulation of the calendar of festivals. There are also systems of standing stones that indicate a calendar divided into eight half-seasons, all based on the annual cycle of the sun's motions in the sky. All these objects yield calendar observations to this very day for those astronomers who understand the use of ancient stone structures for this purpose, and the calendars so observed prove to match those which we know to have been Celtic. Since some of the stone structures are also labelled in Celtic script with indications of their function, we are obliged to conclude that they are the work of ancient Celts. Evidence by ancient European writers tells us that the Celtic astronomers were known as Druids. We therefore must draw the final conclusion that Druids were once active in New England. They were still practicing their astronomical craft in the time of Julius Caesar, whose reformed calendar they adopted in part, and with it the use of Roman numerals, but they retained the Celtic habit of beginning the new year on the day of the spring equinox.

One great mystery remains unsolved. When and why did the Druids of New England cease to practice their skills? Perhaps it would be fair to counter this question with another: what do we know of astronomy and calendar regulation in (say) Britain during the dark ages, after the Romans left; that 400-year blank in British history? We know almost nothing of the answers to either of these questions, so perhaps after all the American historian is not in much worse plight than his English confrere.

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The Ritual Phallic Monuments

Y the end of our first season's work it had become abundantly plain that the New England Celts worshipped the power of fertility in nature. It was also clear to us that the Mother Goddess, Byanu (Beanu of the European Celts) was conceived as a mighty progenitor of the human race, for her great altar in South Woodstock obviously is carved in the form of the human female genitalia, guarded apparently by the two fallen stone phallic columns we had found nearby. We were also impressed by the abundance of representations of the male organs, in relief on temple walls and lintels, on foundation stones of temples now converted into dry-stone walls, and sculptured in the round as cylindrical columns. These phalli range in size from about two inches long up to awesome erections some five feet high.

These extraordinary finds, unique in American archeology, and in total contradiction of the prevailing opinion that British colonial farmers alone were responsible for the megalithic ruins of Vermont, never ceased to arouse the wonder of visitors to our sites.

It came about that the first authority to examine our evidence was a distinguished visitor from overseas. His reaction to what he saw was in startling contrast to what we had experienced up to that juncture.

Our visitor was Dr. Ch. Chhabra, president of the Indian Epigraphical Association, Professor of Sanskrit at the University of Mysore, and for forty years epigrapher to the Archeological Service of the Government of India. India is well known for the more than 4,000 phalli that have been carved from stone and erected throughout the land these past three thousand years. Indian monuments to a belief in the divine nature of the power of reproduction and fertility are also distinguished by having

engraved inscriptions, generally written along the long axis of the phallus, in the same manner as the Celtic phalli of Vermont, except that the language is Sanskrit, the ancient language of the Indian sages and kings.

Professor Chhabra's impending visit to Harvard University was therefore an event keenly anticipated by us, for we knew that in him we might expect to find a highly competent and experienced archeologist, long familiar with an analogous fertility worship in another context. We also knew, from the linguistic studies of our colleagues in Britain, that the Celtic languages are closely related to the common Indo-European tongue from which Sanskrit and the Aryan languages of Europe all descend. His long experience as an epigrapher further meant that he could look at our inscriptions with that penetrating gaze and comprehending inner eye that is the mark of an expert.

At last we had found an authority who had the knowledge to assess our finds. Our expectations were more than amply realized. This quiet-spoken scientist and his charming wife Sheila, with their editor son Vinod, in the space of a day's discussion and examination of the inscriptions not only vindicated our work, but added a whole new dimension to it by setting the objects we had found into the broad context of Bronze Age fertility cults.

We of the Western World have until now had almost no relies to study of the phallic beliefs of our remote Celtic predecessors. The earliest Christian missionaries to the Celts made it their business to see to the eradication of the fertility cult and the near total destruction of the phallic columns so offensive to Christianity. In India, on the other hand, the ancient Aryan beliefs were tolerated or even espoused by the various winds of religious thought that have swept across that land since classical times.

Under Dr. Chhabra's tutelage, we now began to realize that Celtic scholars have till now overlooked a linguistic aspect of the names written on the phallic columns and the images of the female organs. As we now learned, the phallus (or *linga* as it is called in Sanskrit) is most commonly represented in India in company, or actually in physical contact, with the female organs, which are termed in Sanskrit the *yoni*. It is true that John Williams and I had been struck by the occurrence of two fallen phallinear the female pelvis in Woodstock, but it was now apparent that the connection was closer than we had then realized.

You will recall that when we found the giant female stone, the inscriptions occurring with it had told us that this altar was dedicated to a divinity whose name was expressed, in the sequence of consonants given in the Ogam script, as

M-H M-B B-Y-N

an inscription which I had read, in accordance with what our colleagues in Europe have found, as requiring vowel points to give

Ma-hair Ma-bon, Byanu

meaning "Mother of Heroes, Beanu." In Gaelic spelling, ea and eo represent the sound of ya or yo. The name Byanu (or Beanu) has been taken by European students of the ancient Celts as representing the old Gaulish pronunciation of a word beann, meaning "woman," and nowadays commonly spelled ban. Hence the name of the Mother Goddess has been taken to be Woman—with a capital "W," to parallel the Hebrew Adam, meaning Man—with a capital "M." As Man is to be taken as the father of all men, so it was supposed, Woman is the mother of all men.

But Dr. Chhabra's conversation and insights now threw new light on this matter, as he cited the corresponding fertility images of India, and their Sanskrit or Prakrit inscriptions.

We first of all examined the actual inscriptions in Ogam on the phalli, together with the inferences I had drawn as to the Celtic words that the consonants were intended to represent. To summarize in tabular form, we have:

TABLE 7

Representative Ogam Inscriptions Found on Phalli in Vermont

GANI LETTERS	INFERRED GOIDELIC	MODERN GARLIC WORDS MOST	OF THE GOIDELIN
FOUND	WORDS INTENDED	CLOSELY SIMILAR	INSCRIPTION
B-G	Bog	Bog (to swell)	Let it swell
	Bab	Pab (tassel)	Penis
B-B	APHA7		

Dr. Chhabra, a Sanskrit scholar, was not familiar with the Ogam script, but as I vocalized the letters for him it became evident that the ancient Celtic words I was attempting to rebuild from the consonantal framework were roots already familiar to him from India. He first assured me that the sense of the inscriptions, as I had deduced it, matched the sense of corresponding inscriptions on phalli in India. Next he drew direct parallels with the corresponding words in ancient Sanskrit. This, in turn, led me to consult Professor Calvert Watkins's instructive article "Indo-European and the Indo-Europeans" in the recently published American Heritage Dictionary. Putting together the three sets of information (from the Celtic phalli, from Sanskrit, and from comparative linguistics) we

can now construct a new table giving the most ancient words known to us for male sexuality in the Indo-European tongues. These are:

TABLE 8

Words Relating to Male Sexuality in Brouze Age and Iron Age Tongues
of the Indo-European Family

INTERRED ANGIENT	INFERRED	ANCIEST	ANCIEST	
INDO-EUROPEAN ORIGINAL		SANSKRIT EQUIVALENT	CELTIC EQUIVALENT	
ROOT	MEANING	AND ITS MEANING	AND ITS MEANING	
bheng (1)	"to have pleasure"	bhoga, "have sexual enjoyment"	boch, "ecstasy," "joy"	
bheug (2)	"to swell"	(uncertain)	bog, "to swell"	
bood	"penis"	bodh, "excite," "expand"	bod, "penis"	
рар, ри	"to swell"	(uncertain)	pab, bab, "penis," "tassel	
(uncerta	in)	linga, "phallus" (penis erectus)	leam, blade (cf. Old English waepon, "penis"	
men	"to prounde"	mehana, "penis"	mian, "libido" (cf. Laun mentula, "penis")	
mari-to	"bride-provided"	mariya, "rinds of god of love"	maraist, "copulation" (cl Latin markets, "husband"	
spor	"seed," "inseminate"	spris, "sprinkle"	por, "seed," "semen" (c Greek spore, Latin spern	

For the sake of brevity I have included in the table the modern Gaelic word bod (penis) which does not in fact occur on the New England phalli; it should be listed, however, for bod is known to range back at least to the period from 1200 to 1550 A.D., when manuscripts such as the Book of Lismore were composed. Also the rare British phallic stones (found in the remoter districts of Ireland) are known to the local people by this name, an example being the so-called Bod-Fearghus (Penis-of-Fergus) at Tara, seat of the ancient Irish kings.

The principal sources of old Gaelic words available to us now were compiled a century or more ago, mainly through the well-meaning efforts of learned Presbyterian ministers and Irish monks. These clergymen were prone to gloss over words with sexual connotations. Thus Neil Mac-Alpine, whose dictionary was first published in 1832, sometimes records a sexual word but gives a printed dash as its translation; or alternatively he may offer a slang substitute word such as tassle (for "penis," apparently), or refer vaguely to a "member." Alexander MacBain, whose learned dictionary appeared seventy years later, contented himself with giving Latin or Greek meanings for words he considered improper, but omitted many others, probably only because he could not explain their etymology to his own satisfaction.

Having examined the vocabulary of the New England phallic monuments, Dr. Chhabra and I turned to the known role of such monuments in the religious beliefs of India. Here it became apparent that, whatever the more philosophical and priestly significance of these objects might be, the chief role they play in the daily life of the peasants is more directly related to sexual and marital problems, particularly of women.

Thus we would be mistaken in thinking that phallic monuments are primarily connected with the male ethos of masculinity. Dr. Chhabra also drew attention to the parallel of the Indian phalli to the once-famous phallic rocks of the Hawaiian island of Molokai, on the hill overlooking Father Damien's leper colony. These ancient fertility symbols used to be visited by barren Hawaiian women who would be directed by the *kahuna* (priest) to recite certain prayers to encourage the latent potency of the stone penis to enter her uterus; the age-old and harmless rite was abruptly terminated, so he told us, when the local park authorities erased the inscriptions. (Mahair-Mabon forbid that any Vermont town council attempt a like sacrilege!)

I think, and Dr. Chhabra agrees with me, that the Vermont phalli must have served a similar role. In support of this view I would cite the remarkable series of engravings found by us under the base of one of the phalli at the summit of an 1,800-foot eminence near South Woodstock. Here we have an unmistakable sequence of necessities for the production of a child (page 225). These are four in number: (1) an erect penis with the testicles indicated, showing that their role in male fertility was understood; (2) a succeeding diagram in which penetration of the female is indicated; (3) a carving of what appears to represent the swelling uterus, following a successful mating; and (4) the developing fetus, attached by its umbilical cord to the circular placenta.

In the same hilltop area we found libation bowls cut into the bedrock (and partially filled by rainwater), the adjacent portion of the exposed bedrock cut into what has the semblance of a ritual copulation table, the stone excavated into a negative mould of the buttocks of the two marital partners, seated side by side. This sanctuary, for as such it evidently is to be regarded, we had at first called Phallus Hill, but after considering all the relevant facts we could elicit from the surviving relics, Peter and John and I felt that a more appropriate name might be Hill of the Wedding Rite, and so we marked it on the map, where no name had stood before.

When considered in the light of the foregoing discussion one is filled with awe at the survival for these two thousand years and more of such ancient relics of profound mystical importance to those Celtic wanderers from Europe who made their home in this far-off country. The phalli now lose their comic aspect, and can be seen as objects of religious venera-





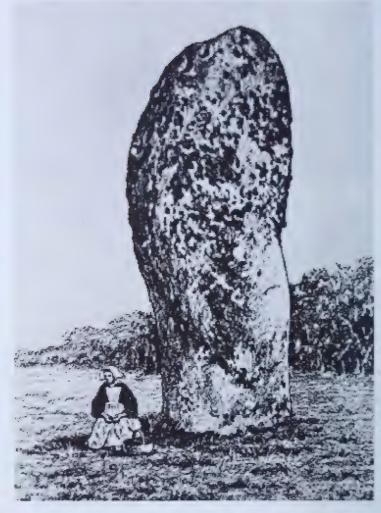






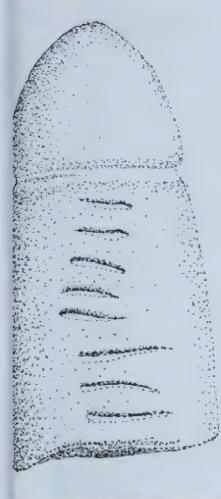
Fertility Cult, series of engravings on the base of a carved stone phallus, four feet high, Temple of the Marriage Rite, South Woodstock. Upper row, from left: (1) erect phallus, (2) intromission, (3) the swelling uterus, (4) the growing embryo attached by the umbilical cord to the circular placenta. Joseph D. Germano

Several large phallic stones are associated with ruins of a fertility temple on a hilltop near South Woodstock, Vermont. Some of the stones carry traces of Ogam inscriptions relating to fertility rites, and other bas reliefs depicting the formation of an embryo. Large quartz testicle stones, one of which is seen in the foreground, occur also in association with sun temples and other ruins. These Celtiberian phallic stones may be compared with similar objects seen in Portugal and Brittany. Peter J. Garfall



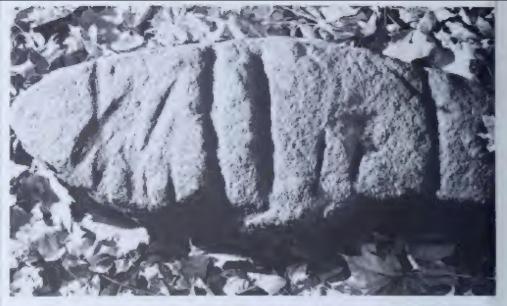
The giant phallus of Kerdef, Brittany, exceeding in size all known European and American megalithic monoliths. For long attributed to a supposedly unknown neolithic or Bronze Age culture, current opinion is now growing that this and similar megalithic structures of Carnac were in fact the work of Celts before they acquired the art of writing. Dechelette, 1908

Giant phallus, originally standing seven feet high on its base (right end in picture), now forming part of a colonial wall at South Pomfret, Vermont. The Ogam inscription, seen upside down in this view, reads from the base upwards, L-la-G B-L (T-N), Beltane Stone, the last two letters damaged. The Celtic festival of Beltane, held on May Day, originally in pagan times included revels danced around an erect phallus. In Europe, after Christianity was introduced, the phallus was replaced by a maypole. This phallus was discovered by John Williams. Joseph D. Germano



Phallic claystone talisman from Algeria, after Rossello-Bordoy (1969). The engraved strokes appear to be North African Ogam script, spelling the Punic word Q-F, presumably matching modern Arabic qaf, and meaning "stand creet." Although phallic stones occur in the Iberian region, this inscribed form from northwest Africa seems most closely to parallel the Ogamic Celtic phalli of Vermont. Uninscribed phalli have been considered neolithic, but this example should probably be referred to the late Bronze Age or early Iron Age. Numerous table knives with phallic handles have been found in ruins of houses and military barracks of Romano-Celtic sites.





Phallus from open-air precinets of Byanu, found near the large yoni altar at South Woodstock, Vermont. The Ogam characters read from left to right, Ya-S-C L-Y, apparently meaning "To inseminate the (Mother Goddess's) birth passage." John Williams and Joseph D. Germano







Bronze Age fertility cult in Britain. This figure, known as the Cerne Giant, is cut into the chalk bedrock of a hillside. Its outlines have been kept free from overgrowth by vegetation through the care of the local villagers through the centuries since it was first created, probably in the first millennium a.c. The giant is 180 feet high, the phallus 35 feet, thus the largest phallic monument in Britain. These figures, dependent largely upon the chalk bedrock for their production, are apparently lacking from the Celtic areas of America and Iberia.

Fertility cult, South Pomfret, Vermont. The phallus shown middle left is engraved on the lower side of a now recumbent 6-foot phallus built into a colonial wall. Beside the engraving is the Ogam inscription shown in the lower photo, reading B-G, corresponding to modern Gaelie Boe, and meaning "Let it swell." Joseph D. Germano

tion, evoking the prayers of hopeful young parents, or of disappointed couples who longed for children, and who doubtless carried out ritual acts in accordance with the advice of the Druids of the clan. May these historic relics escape the onslaught of vandals! Probably they should be transferred as soon as possible to a museum, where they can be seen by all but kept safe from descration.

Following Dr. Chhabra's visit I researched what is known of phallic stones among the Celts of Britain and learned some facts that support the inferences we had drawn from the Indian and Hawaiian parallels,

From Dr. Richard Brash's work on Gaelic Ogam monuments I learned that there had once been a phallic stone of almost identical proportions to the larger phalli of Vermont, located in the churchyard of St. Olan's at Aghabulloghe, near Coolineagh in County Cork, Ireland. It is no longer intact, for the glans was deliberately destroyed ("made away with" is the term used) by the clergyman of the church some time before 1876. This outrage, in the name of Victorian prudery, was committed because the phallus was the object of ancient veneration among the parishioners for the cure of certain illnesses and for the promotion of successful childbearing. The phallus, now deprived of its coppeen (as the amputated portion was called) stands 5 feet high, with a girth around the base of 42 inches. In former times the coppeen was much in demand as a medical aid, and was often borrowed for temporary use in one of the crofts. If the borrower failed to return it, the coppeen was said to have the miraculous power of returning unaided to the tip of its columnar counterpart. A recipe for headache was to take the coppeen from the phallus and to place it on one's head, at the same time walking solemnly round the church three circuits, repeating the Pater noster at every turn, a curious survival of early Christian concessions to pagan beliefs. In addition to promoting childbirth, it was efficacious in the treatment of what Dr. Brash called female complaints.

What the Gaelic villagers thought of the outrage committed by their ignorant pastor is sufficiently shown by the fact that a replacement coppeen was surreptitiously manufactured and placed where the ancient one had been; it was crudely carved, however, and Brash refers to it as an unshapely lump, with little of the reputation formerly enjoyed by its ancient predecessor. The cylindrical body of the penis carries an Ogam inscription along the vertical axis, as in the American examples. Apart from the word maq, however, the letters are damaged or incomplete, and a decipherment has not been possible. It would appear that the phallus may have had an earlier pagan inscription erased, to be replaced by a funeral inscription of some important personage in early Christian times who chose to employ it as his tombstone. It is currently known as St.

Olan's Stone but, as Brash shows, the puzzling inscription has nothing to do with the saint.

Village people have long memories. That is to say, they perpetuate beliefs held by their forefathers from generation to generation. In this case there can be little doubt that, through all its vicissitudes, the phallus of St. Olan's, and its movable *coppeen*, was remembered for powers it was reputed to have long before St. Patrick began the destruction of the ancient monuments of the Irish Celts.

Taking now what evidence we have gleaned from the available Indo-European sources, including the pathetic Irish remnants, some conclusions may be hazarded as to the role the New England phallic stones may have played in the pagan Celtic society of this country 2,500 years ago.

As mentioned above, Dr. Chhabra stresses the association of Indian phalli with corresponding stone representations of the female organs, or yoni. Consider also that in Vermont we have found two large stone phalli lying prostrate a short distance from the two-ton female stone of South Woodstock. John Williams further reports that he has noticed other, smaller stones with the same carved similitude to the female organs.

Are these male-female juxtapositions merely an accident of ruin, their scattered distribution a reflection of no more than the random disintegration of temples under the combined attack of time and the wall-building colonists of the late eighteenth century? This matter can now be examined.

Mother-of-Heroes, Lady Goddess Byanu

F the two great divinities of the ancient Celts, Bel and the great Mother Goddess, the goddess may not be the second but the first. Many archeologists who have examined the evidence yielded by the famous ruins of the early Mediterranean civilizations such as those of Greece, Crete, Italy, and parts of Asia Minor have concluded that worship of the powers of nature in the guise of a Mother Goddess represents perhaps the earliest organized religion of the human species.

The argument adduced to justify such a belief is twofold: (1) in the lowest, and hence earliest, levels of the accumulated debris left on this planet by our predecessors we find many carvings, paintings, and complete sculptures of women in situations such that we can only conclude that they represent a major divinity, whereas male figures are apparently reduced to a secondary role; and (2) images or carvings of pregnant females ranging back even into the paleolithic age suggest that the one event that aroused the greatest wonder and admiration of ancient people was the mystery of birth, the means by which the human family was kept in existence.

In view of the self-evident fact that the earliest human beings cannot have had a deeper understanding of their sexual behavior than of any other instinctive action such as eating or urinating or foraging for food, it is clear that the purpose of copulation was a mystery that had to be pondered upon and eventually explained by some mastermind of remote times. Thus many archeologists have come to the conclusion that probably the predominance of divine females in the religious records of early

civilizations reflects an early feeling of wonder and admiration that all people, men and women alike, felt for a pregnant woman. Somehow women became pregnant and this was a measure of their essential role in

perpetuating the tribe.

Male chauvinism, by this argument, was born when it was first discovered that no woman ever became pregnant unless a man had previously mated with her. Once this discovery had been attested by experiment and repetition, the potency of the male was recognized. From this it was a step to recognizing the penis as the source of fertility and, as chance injury or wounds would soon disclose, that the penis is useless unless accompanied by the intact testicles. Thus the notion of the phallus became the symbol of natural fecundity. Male gods of hunting and warfare were added to produce a pantheon of father-like divinities, divine youths and cunning wonder-workers, smiths, guardians of the home, ships and the like, divine inspirers of song and dance, and so on. These, with their assorted wives and children, now became the extensive pantheon of gods and goddesses who replaced the original Mother Goddess. Among the ruder, less civilized peoples, such as the Celts, the power of the Mother Goddess lingered longest, shared now with her divine spouse, the sun god Bel. For the youth, the hope of the tribe, a youthful figure was granted divinity in guise of Mabo-Mabon, Youth-of-the-Youth or Hero-of-Heroes, sometimes equated with Apollo of the Greeks.

Julius Caesar, when he wrote his account of Gaul in the sixth decade before the birth of Christ, listed the divinities worshipped by the Celts as he knew them. Many others have been added by European archeologists who have read the numerous, though fragmentary, inscriptions found in Celtic excavations. So far, in the New England Celtic ruins, we have not found definite evidence for more than the three divinities mentioned above. It seems likely, then, that the ancient Celts had fewer gods than their descendants of Roman times, for our New England Celts would bring to America a religious system corresponding to that of Celtic Europe in about 800 s.c., always provided that we are dating the

New England inscriptions correctly.

If I am correct in assigning the era of the Celtic incursion into America to around 800 s.c., then we must admit that by this period the European Celts had transferred to the male of the human species the honor that had formerly been accorded the female. It is on the phallic monuments that we find the inscriptions relating to sexuality. The stages in the creation of a human infant are depicted not on the altars of the Mother Goddess, but in separate Phallic Precincts apparently frequented by women who had difficulties in producing a child and probably also by newly married couples or couples carrying out the ritual copulation that

was part of the Druidic wedding ceremony, as we may judge from corresponding petroglyphs found in Scandinavia, where Celtic influence is

apparent during the Bronze Age.

If, therefore, the human male had now assumed the mantle of glory as the producer of the magic fluid that somehow caused women to become pregnant, what was the role of the great Mother Goddess in this maleoriented hunting society? This question is not easy to answer on the rather scant evidence so far uncovered in our preliminary survey, not yet one year old. But several facts seem important to me at this juncture.

Examine again the table of Ogam inscriptions found on the New England phalli as set out on page 221. Next compare it with the table of Bronze Age words relating to male sexuality given on page 222. I think we have here indications of a transitional phase in the evolution of our forefathers' conception of the function of sex. The root bheug, for example, is instructive. On the one hand it conveys a sense "to have pleasure" and on the other hand it has a second sense "to swell"; that is, become erect. I think this linguistic twin reflects man's original notion of sex as purely an avocational act of play, a pastime that gave enjoyment—and no more than that. The second sense, on the other hand, is related, I guess, to the realization that copulation is also a serious business, and can bring about the birth of a baby.

It is this second sense that relates to the transfer of supremacy in the religious sense to the male of the species, to the origin of the concept of fatherhood. By discovering the potency of semen, humans now discovered a new mystical power within the male, and soon after began to devise initiation ceremonies for the young males, requiring a proof of their seminal capacity. Similar hints of a former view of sex as merely an enjoyable pastime are conveyed, I think, by the root mari-to, "bride-provided," and the cognate Sanskrit sense of pertaining to the rites of the god of love. In contrast, the root spor, "to sprinkle," "to inseminate," and "seed," in these various senses again betokens realization of the role of the male as father and producer of the magic fertilizing fluid.

Perhaps it would be natural, in this changing view of the role of the female, for a new sense of devotion and affection of the male for the female to develop. Woman is no longer the dominant power who alone regenerates the species. Instead she has become man's-wife (as the word woman indeed means), his object of love, the mother of his children (as opposed to her former role as the mother of her children). Woman is the human partner who brings up the infants while the father is hunting. She is the expression of the presiding genius of the rude hovel that he calls home. As Caesar and other Roman writers noted, she accompanies him to battle, cheers him on and shares with him his every fortune, good

and bad. In her new role the Celtic woman came to exercise a power over the men so great that the Romans, in order to quell the martial spirit of the Britons, were compelled to kill the women instead of enslaving them. Perhaps this interpretation may help us understand why the New England Celt found it expedient to erect major temples to the Mother Goddess, for in his concept of woman lay the breath of life, his personal honor, and the respected and beloved bearer of his children.

Mother-of-Heroes, Lady Goddess Byanu

This, then, is probably the origin of the primary title of the Celtic Mother Goddess, *Mahair-Mabon*, "Mother-of-Heroes." As woman is to man, so is *Mahair-Mabon* to Bel, the father god whose symbol is the

sun itself.

What, then, of the secondary title accorded to the Mother Goddess in her New England inscriptions? As I first read it, this Byanu, matching Beanu or Beann, of the European Celts, meant "Woman"—Woman the personification of all women. My conversations with Dr. Chhabra, however, caused me to reexamine this interpretation, and I would now prefer to substitute a different explanation of the etymology and sense of this secondary title, Byanu.

The cross-shaped Ogam symbol which the Book of Ballymote tells us stands for ya (ea in Gaelic spelling for the sound "ya") can also stand for the sound "yo," as for example in the proper name Yo-g-h-an, which we have found on a New England gravestone, and which we know (from British sources of evidence) is the earlier form of the modern Celtic names Ewan and Evan. Thus Byanu, the name of the Mother Goddess, might once have been pronounced "Byonu," or even "Byoni" for that matter.

This is more than mere academic hair-splitting. Suppose the Ogam letters of the goddess's name, "B-Y-N" in the form in which we find it spelled on the New England monuments in her honor, were indeed intended to be pronounced "Byonu" or "Byoni." In that case we could scarcely fail to draw a direct parallel between the name and the Sanskrit name of the female organs of generation, yoni. The etymology, too, would be consistent, for the Celtic root yann (or iann) means "that which is internal," and this also is the root sense of the Sanskrit word for the female genitalia, the inner organ, as opposed to the phallus or linga, which is the outer sign or manifestation of sex. The ancient Romans had a similar concept in that maleness in a newborn baby was indicated by the "witnesses," as the word testes in fact means, the outer witness of sex that determines maleness.

Added to this etymological argument is the fact well attested by the Indian phallic monuments; that in most cases the phallus is depicted with, or enclosed by, the youi. The concept of sexuality as a means of pleasur-

able activity is, as is well known, deeply ingrained in Sanskrit writings. Much of the Kama Sutra is devoted to the discussion of how to maximize these aspects by insuring that the phallus and the yoni are mutually concordant by selecting mating couples on the basis of the proper dimensions of these parts.

I suggest, therefore, in the light of the evident parallels between the phallic and female elements of New England Celtic monuments on the one hand, and the Indian linga and yoni on the other, that it is not improbable that the secondary name of the Celtic Mother Goddess, "B-Y-N," should rather be read as something like B'i-iannu, meaning She-of-the-Yoni, or as a phrased epithet in apposition to her primary title, Mother-of-Heroes, being She-of-the-Yoni. By this suggested interpretation we would have, in effect, the aspect of the Mother Goddess that relates to the first sense of the root bheug, namely the pleasurable aspect of sex, as it was understood before the true role of the male had been discovered. But to the Celt of 800 a.c. with his religious thoughts stabilized once he had deserted the shores of Europe, the primary title of the Mother Goddess would be her first one, that expresses her motherly role.

Although the Celts of Britain and France have left us many sculptures depicting their gods as they envisaged them under the influence of Rome, we have very little from the earlier period before the Pax Romana came to the people of Gaul. Much the same comment may be made of the Celts of Spain, except that under Phoenician tutelage, numbers of rather crude or unintentionally humorous statues and paintings have come down to us from Iberian populations that may have been predominantly Celtic, though imitative in some degree of the higher civilization they perceived among their Punic neighbors. These Iberian Celts have given us Picassoesque pictures of themselves, but seemingly little in the way of visual realizations of their ideas on the gods of their pantheon.

This being so, it is astonishing to find that after only one season's activity in Vermont we have been able to identify at least one ceiling painting of Byanu. The goddess can be identified with absolute certainty because the painting was found in a medium-sized temple whose portals proclaimed (when John excavated them at my request) in very large, clear Ogam script, the word B-Y-N. But the very first glance at the ceiling figure (drawn to my attention by our Oklahoma colleague Gloria Farley, who was visiting the New England sites) disclosed that the divinity depicted is in fact none other than the Carthaginian goddess Tanith! Comparison of the illustrations (page 238) will make this clear. Tanith, in her strangely stylized and doll-like posture, is found wherever Punic influence penetrated. She is the Punic concept of the spouse of Baal, the Semitic sun god. Here we have clear evidence that the Celts of Iberia had

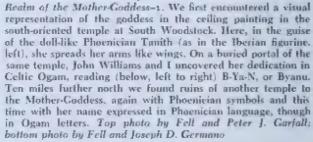


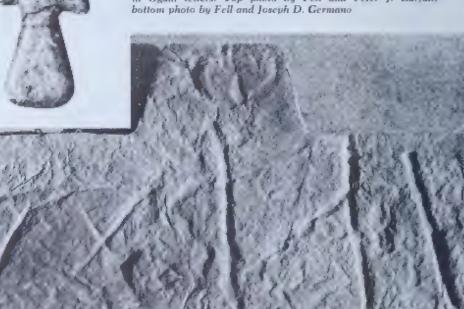




A critical clue whose decipherment led us to the Precincts of the Gods of largalon. Two portions of a three-part Celtic milestone found at South Woodstock, Vermont. In the upper photo the stem-line bisects the single stroke of the M to the left, then lies above the following staves till it curves down at the right-hand angle, so that the last two staves lie above the line. The inscription therefore reads M-S F-D, with XI on the button-shaped stone below. Interpreting this as Mios fad, XI, "Measure of distance, eleven (Celtic leagues or Roman miles?)", we instituted a search for another settlement at the indicated radial distance. Eventually John Williams located the ruined temples at the place apparently intended, lying at a distance of 10 miles (i.e., 11 Roman miles) from the milestone. From this area we went on to discover the Beltane Phallus, inscriptions to the Mother-Goddess, and ultimately to find the fallen statue of the Mother-Goddess herself. Fell and loseph D. Germano











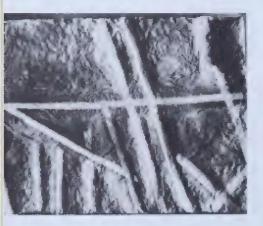
Realm of the Mother Goddess-2. Ten miles north of the temple of Byamu at South Woodstock, Vermont, signs of the Mother-Goddess reappeared on ruins of masonry, this time represented by a stylized Phoenician symbol of Tanith (above), and also her name T-N-D written in Ogam characters (below), both inscriptions on stones built into a dry-stone farm wall. Other inscriptions nearby gave the goddess's name in its Celtic form, Byanu, while a flat milestone informed us that we had now entered Ya-N-D D-Ya-D Ya-R-G-L-N, "The precincts of the Gods of largalon." John Williams and Joseph D. Germano

America B.C.











Realm of the Mother Goddess-3, At South Woodstock we found, on a hillside under birch and maples, a giant 2-ton female stone or yoni, carved in the form of the pelvic region of a woman. The inscription on a fallen phallus nearby told us that this object was known as "The Loins of Byanu." On various stones built into dry-stone farm walls within a few yards of the great youi we found Ogam inscriptions that read (1) M-H M-B (Mahair-Mahona, or Mother of Heroes), shown above, left. (2) B-Ya-N (Byanu, or She-of-the-Yoni, Beanu, or Woman of European inscriptions, shown above, right. (3) S-Ya-M-M-Ya-M (in dedication), middle row. The part of the youi stone where the female genital cleft is carved is shown in the lowest photograph. It appears from the presence of large phallie stones at this site that it was an open-air fertility precinct. No temple ruins occur nearhy. All photographs were taken by Peter J. Garfall, the inscriptions cast from materials collected on the site by Williams and Fell.





Realm of the Mother Goddess-4. The appearance of sacred beasts, carved after the manner of the Iherian Celts, was a sign of the proximity of sacred precincts. The Sacred Boar (lower photo) was found by Fell near the Woodstock site. Some months later John Williams reached the Gratta of Verus, to find it superfeel by a



Realm of the Mother Goddess-5. John led me to the new site to see the sitting bull he had found on the ledge, apparently immoved since some hands placed it there over 2000 years ago. But before I had more than glimpsed the beast above, my eyes fell upon the sight we had never dared to expect—the torso of the great goddess herself lay stretched out among the pine needles, dappled by the play of autumn sunshine from the west. She lies there still, now buried beneath the snow of winter, carved from native New England schist by some unknown Celtic sculptor, now shattered in part by the frosts of centuries, discolored and overgrown by lichen, but beautiful despite the ravages of time. Joseph D. Germano

already absorbed much Carthaginian religion, having not only indulged in that favorite Greek habit of equating foreign gods and goddesses with native-grown divinities, but also accepted the foreign notion of how the divinity appeared.

When account is taken of the foregoing arguments, it is not to be wondered at that the Tanith of South Woodstock shares her ceiling with a conspicuous but lightly engraved phallus, with the usual exaggeration of the length of the penis that characterizes many of the Vermont phalli.

Tanith appears in two guises on the Punic monuments of Carthage and the Mediterranean areas where the Carthaginians penetrated. In one form she has her arms spread outwards as if flying, and the South Woodstock version shows her thus, the arms looking like angel's wings. Since the temple inscription is Celtic, and declares the structure to be dedicated to Byanu, I suppose we should call the ceiling figure Byanu-Tanith, and infer that this temple was visited by both Celts and Phoenician visitors from Tarshish who had sailed up the Connecticut River to trade in the Woodstock area. Curiously, Gloria Farley, who first set eyes on the Woodstock painting, is also the discoverer of another American Tanith, one

Realm of the Mother Goddess-6. We returned once more, with Joe Germano to record the find on film, and then left the goddess to sleep undisturbed. We called her Venus of the Snows. Next year, if our research resources should permit it, we plan to return with gear and manpower to bring her back to whatever museum may grant her shelter. It is our hope that the citizens of Vermont will establish a museum at South Woodstock, where these national treasures may be seen by all. Fell, Joseph D. Germano, and John Williams



carved on the Cimarron cliffs of the Oklahoma Panhandle. This southern example, identified in Iberian Punic script, is evidently not the work of Celts. It conforms to the second variety of Tanith figures, in which the arms are not wing-like, and some ritual objects are held in the right hand.

There remains another cult object that may be related to the worship of the Mother Goddess in her role as She-of-the-Yoni. This is a class of rock slab in which a circular opening has been cut, rather like the porthole of a ship. One of these strange holed-stones was dug up recently in the town of Derry, New Hampshire. The town fathers, deciding it was an object of local historic interest, have erected it in a conspicuous position on the town square.

In Chapter 14 I mentioned that there are two large phallic stones associated with the yoni-altar of Byanu at Woodstock, in the woods that now cover the lower slopes of the hill opposite the Stag Court. Each of these phalli carries an inscription directly related to the altar of Byanu, and therefore differing in character from the phalli described in the preceding chapter. One of these (page 224) is relatively long and slender, and carries an Ogam inscription that may be read as meaning "For the loins of Byanu." The other (page 228), shorter and with an exaggerated glans region, adds the words "To inseminate her vagina." Apart from the inscriptions they carry, whatever esoteric significance these may have is at present obscure.

Late in the 1975 season when I withdrew temporarily from field work to write this book, John Williams carried out exploration in the Royalton and Pomfret areas of Vermont, finding a number of interesting new sites to which he subsequently led me. One of these proved to be a secluded grotto on a steep hillside now covered by pine woods. The grotto, seemingly constructed originally in the form of a shelf dolmen, is now partly collapsed. On a ledge stands a petromantic beast weighing (we guess) about 160 pounds. By petromantic I mean a partly sculpted stone object evidently inspired by a natural free form that suggested an animal to the Celt who improved upon nature by reshaping the contours a little, though not so much as to make the resultant carving precisely identifiable. It remains innominate, a sacred beast, on guard, head thrust into the air, apparently unmoved since some unknown hands placed it there.

Fallen from the chamber of the grotto is a half-ton slab of stone, partly carved as a recumbent female torso, again petromantic, a form suggested by a natural stone that some early sculptor's hand has retouched to indicate the breasts, trunk and thighs of a reclining woman, now headless. This, we suppose, is also a representation of Byanu, not in her role as Mother of Heroes, but rather as the seductive bride of man. So we have called her dolmen the *Grotto of Venus*. Vandals have not as yet discov-

ered her secluded bower, and we hope she may rest yet awhile longer in the forest, undisturbed until some museum may offer her safe refuge.

One day, during the Indian summer, we returned with Joseph Germano, who brought cameras to record the scene, and then withdrew, leaving her and her guardian beast to sleep on. So far as we can tell we three are the only visitors to the shrine in modern times. Filled with misgivings following vandalism of the Running Deer at Mystery Hill only a week before, we have felt constrained to withhold information on the position of the grotto.

Similar cult objects, sacred beasts and half-sculpted free-form petromanteia of Bel and unnamed gods are gathered into the safety of national museums in Portugal and Spain. There is an unfortunate dogma pervading some American museums, that no Europeans settled America prior to the Norsemen or Columbus, and this has deprived us of the means of rescuing the Celtic inheritance of this country.

We have asked Vermont citizens interested in the Celtic finds to form a committee to try to establish a museum for the safe repository of such objects. Until some action eventuates, it seems that they must be left to fend for themselves, as indeed they have these past twenty-five centuries.

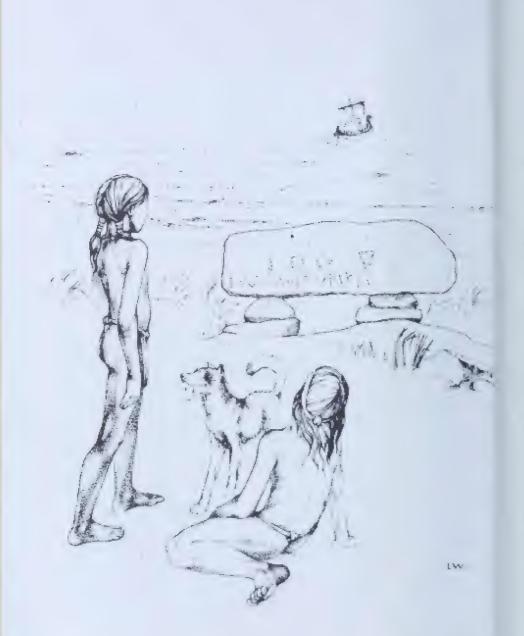
New England's Celtic Place Names

Y early October the fall was well advanced in the Green Mountains and the opening of the hunting season meant that it would no longer be safe to venture far from the beaten tracks, since any movement we might make in the underbrush would be likely to attract a rifle shot. I also had writing commitments to attend to, so John and I agreed to separate our efforts for the time being, he to roam the back-country roads to check on promising areas we had been considering for some time, myself to pound the typewriter.

However, we were pleased to receive a most cordial invitation from Professor Warren L. Cook of the Department of History and Anthropology at Castleton State College, inviting John and Peter and me to meet with his students for lectures and seminars on our finds. Several of his students had in fact called me or telephoned to offer their assistance as voluntary field parties, or in any other capacity in their power. Nothing could be more appropriate than to give the first college lectures on our work at Castleton, in the heart of the Celtic country. One beautiful fall day, therefore, we made the trip.

Our audience was enthusiastic and well prepared, asking many apposite questions and holding us until late in the afternoon. Jim Whittall and Bob Stone came too, and some of the local landowners were there. This chapter covers material included in one of the Castleton meetings, where I pointed out to my audience that they already knew many Celtic words.

When as a stranger to the land I first began, some twelve years past, to travel the country roads of New England, I was frequently amazed and amused by the extraordinary barbarity of such Amerindian place



names as had somehow survived the onslaught of the colonists (who renamed almost every part they settled after some British hometown). Words such as *Umbagog* or *Squunq* conjured images of Neanderthal uncouthness, totally out of kilter with my own Polynesian background of cuphonious words, often with a romantic connotation. What exiled Umbagogian could shed tears for Umbagog?

But I was mistaken. Modern Gaelic, preserving as it does many spelled letters that are no longer pronounced, looks considerably different if converted to a phonetic manner of writing. If, further, one allows for the ancient spelling or pronunciation of Gaulish, the ancestral tongue of the Celts, then many New England names assume a new aspect despite the quaint manner of transliteration used by the colonists in the days before Webster introduced a standard form of matching spelling to the spoken sound.

Take the name of the Amoskeag River, for example, where important archeological remains exist. When I first visited the site the name meant nothing to me and I assumed it to be Algonquian, but never thought to inquire if the name had a meaning. Indeed it has, as J. Almus Russell has pointed out in an article (1972) recently brought to my attention by my friend Gertrude Johnson. According to Russell, competent scholarship shows that the Algonquian sense of Amoskeag is "one who takes small fish." But no sooner had I seen this translation than I immediately recognized the word as the Celtic Ammo-iasgag, which means "small-fish stream." The Gaelic word for fish is iasg and the suffix -ag is the sign of the diminutive, giving the sense "small-fish." Evidently the main purport of the name was imparted to the Algonquian Indians by the Celts, but some details of the sense as well as the precise pronunciation have been blurred by the passage of time.

Alerted by this surprising coincidence of meaning and sound, I began to look at New England place names with a new and more critical eye, as often as not perceiving familiar Celtic words and phrases where formerly I had not. There was a time, not so long ago, when my heart leaped whenever John Williams took me across the border into Vermont, and I sensed the Celts all about me. But now I perceive their unseen presence all along the Merrimack valley, and the geographical names of New Hampshire and the other parts of New England are strung like a rosary whose beads tell of times long past. The Celtic presence is all-embracing, by no means confined within the borders of the Green Mountain state. Let me give just a short list by way of examples.

Look at the river names first, since we have already cited the Amoskeag. Bear in mind also that in Britain nearly all the river names are Celtic, even though now flowing through regions where Saxons have usurped the land these past fifteen hundred years. Here, as also there, Celtic names have a strangely enduring quality, and rivers, it would seem, tend to keep their old names despite the invasions of foreign conquerors.

Russell tells us that the Algonquian meaning of the river name Ammonoosue is "small fishing river." But read it as Am'-min-a-sugh and you have the old Celtic roots that mean "small-river-for-taking-out-(fish)." Surely no coincidence! "Cohas Brook" and "Coos County" are both said to take their names from an Algonquian word meaning "pine tree." But Cohas is nearly the sound of the redundantly spelled Gaelic word

ghiuthas, meaning "pine tree."

The Merrimack River has more than one Indian name. One of them is Kaskaashadi, which looks (and sounds) very much like the Gaelic phrase 'g-uisge-siadi, meaning "with slow-flowing waters." No one now seems to remember the meaning of the Algonquian name, but I put my money on the inference that the Gaelic is the true explanation. And as for the other name of the same river, Merrimack, this sounds like the Gaelic words mor-riomach, meaning "of great depth," a pretty good match for Russell's Algonquian translation, which reads "deep fishing." The Nashaway River is recorded by Russell as meaning "land between." Could this not be a rather illiterate rendering of the Gaelic naisg-uir, meaning "land-connected"?

Then there is the Piscataqua River, said to mean "white stone." It seems very similar to the Gaelic Pios-cata'-cua, meaning "pieces of snow-white stone," presumably with reference to the white quartz abounding in the region. Then there is the Seminenal River, said to mean "grains of rock"; but semen-aill in Celtic would have the same meaning. And so we come to the Umbagog River—said by Russell to mean (rather cryptically) "shallow great waters near another." Here I admit defeat, finding no Celtic roots in any way related to such a sense. So we assign that name to another nation and another tongue. Who knows, perhaps the Celts, too, found the name endearingly ridiculous, and carefully preserved it as an antique curiosity from Stone Age times.

Earlier in this book I have noted that the name Quechee matches the Gaelic Cuithe, meaning "pit" or "chasm," a feature for which Quechee is famed, some 162 feet deep; and the river Ottauquechee flowing through the gorge may be read as Otha-Cuithe, "the Waters-of-the-Gorge" (and probably pronounced in ancient times more like the Algonquian version than is the modern Gaelic with its aspirated t's suppressed).

The Cabassauk River is said to mean in Algonquian "place-of-sturgeon." The sturgeon, unfortunately, has fallen victim to environmental deterioration, but those few readers who may be familiar with the fish will recognize the epithet "gap-toothed" as being appropriate to the appearance

of the large tooth-like scales in several rows, separated by large gaps. In Gaelic Cabach means "gap-toothed," and the residual -sauk of the Algonquian name parallels the Gaelic -sugh, meaning "a place-for-taking-out"—thus, fishing for sturgeon.

The names of mountains in Britain frequently are corruptions of old Celtic names, and the same is true of New England. Attilah Mountain is said to mean "blueberries"; this seems to be meant for aiteal, a Gaelic word nowadays used for "juniper (berries)." Munt Hill is said to mean "people" (Indians) and the Gaelic word muintear means "people" also. Monad, which is Algonquian, and monadh, which is Gaelic, both mean "mountain," and appear in mountain names therefore. So does Kan-(matching the British Kin-, and the Gaelic Ceann-), all of them prefixed to names of peaks and headlands. Cnoc, a Gaelic word for "hill" or rocky outcrop, seems to be matched by the New England suffix -nock, found in the names of hills and mountains. Another Algonquian name used for mountains is Wadjak, though its real meaning is "on top"; but that is also the meaning of the Gaelic uachdar, seemingly the same or a related word.

In Scotland and in the Hebrides, conical hills (especially if paired) are frequently known by English names such as the Paps (of whatever), seemingly a relic of Bronze Age times when such features were attributed to the Earth Mother. In New Hampshire we have the mountains called Uncanoonucks, translated from the Algonquian as meaning "Woman's breasts." The equivalent in Gaelic would be Uchd-nan-Ugan, of which the geographical name appears to be a corruption. Our forefathers also attributed to tall cylindrical rocks a comparable name, such as the Phallus-of-Kupe, but I have not as yet noticed any Celtic equivalent in New England, though it is doubtless to be found.

Cowissewaschook is an Algonquian mountain name in New Hampshire said to mean "proud peak"; it is evidently derived from Cuiseach-stuc, which is Gaelic for the same meaning. Similarly the name Keursage, also used for this peak, means "sharp-pointed," matching the Gaelic Cuimsich with the same meaning.

Then there are the names of places that do not always relate to the geography. For example, Saco, meaning "south side," matched by the Gaelic seach and the Latin siccus, both meaning "dry," a quality appropriate to a district where the rain and the snow commonly sweep in on the north wind. Ponemah is an Algonquian place name meaning "resting-place"; it seems to derive from the Gaelic bonn-a-maigh, meaning a "permanent resting place."

Monomonock Lake is said to mean "island" or "lookout place." It seems to match the Gaelic Moine manadh ach, meaning a "boggy-lookout-

place." Pontanipo Pond is said to mean "cold water" in Algonquian, but the same sense is given by the Gaelic Punntaine-pol (literally, "numbing-cold-pool"). The Algonquian name Natukko is said by Russell to mean "cleared place," and the same sense is given by the Gaelic Neo-tugha, meaning "not-covered" (by vegetation). Asquam Lake is said to mean "pleasant-watering-place," and if this corresponds to Gaelic Uisge-amail, then the sense would be "seasonable-waters."

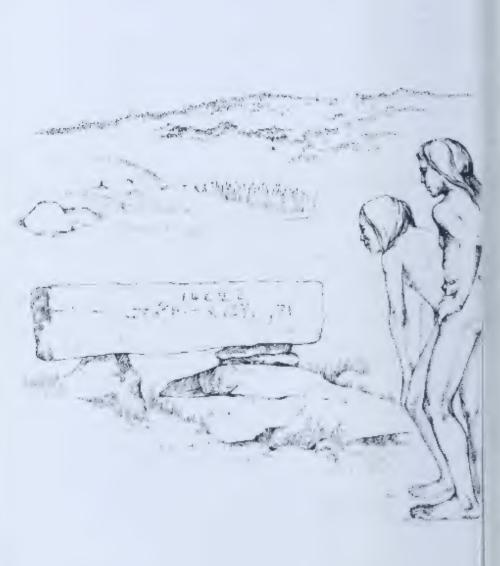
Enough has been given here to illustrate the subject, and to continue indefinitely would become tedious. If you would like to study the subject of geographical place names further, in this Celtic context, you might find the following books useful: Macalpine's Pronouncing Gaelic Dictionary and one of the Algonquian dictionaries published by the U.S. Bureau of Ethnology. A member of the Epigraphic Society, John Philip Cohane, is preparing materials for Maps of Prehistoric Place-Names. Another worker in this field is Professor Norman Totten, Bentley College, Waltham, Massachusetts, who will be glad to learn of studies in progress or completed.

17

The Egyptian Presence

HIS chapter sets out newly recognized evidence showing clearly that ancient Egyptians once visited North America and, while here, imparted a detailed knowledge of their complicated hieroglyphic writing to the people who lived in Canada and the United States at that era. The evidence is extraordinarily rich in variety and amount, and perhaps one of the more surprising things is that no one until now seems to have noticed it.

My opportunity to study it came about mainly through sleuthing by John Williams. After the ground froze in New England, John began a lengthy search of the documents stored in the great Widener Library of Harvard College. He was seeking out references in earlier reports of excavations that might lead us to find new sites to explore, or to museums where material of significance to our studies might be stored. In the course of this inquiry he consulted works in the Indian languages. One day John brought me a copy of a curious document printed in New York in 1866, and included in a book on the Wabanaki Indians of Maine written by Eugene Vetromile, a priest who ministered to the Indians. This document, comprising a single sheet, was headed The Lord's Prayer in Micmac Hieroglyphs. At first glance I perceived that about half (at least) of the hieroglyphic signs were remarkably similar to Egyptian hieroglyphs as rendered in the simpler cursive form called hieratic. But what was more surprising, indeed mystifying, was that the meanings of these signs in Egyptian matched the meaning assigned to them in the English transcript of the Micmac text given on the document. Now, I had read in standard works on the American Indians that certain tribes in the northeast make use of a hieroglyphic writing system "invented by missionary priests who found it easier to teach the Indians by using hieroglyphic signs." But that did not accord with the evidence now before me, for this seemed to show that someone familiar with the Egyptian hieroglyphic system had contrived the Micmac writing.



America B.C.



Parallel versions of part of Psalm 116, Non nabis Damine. Micmae hieroglyphs in the upper lines, as composed by the Abbé Maillard circa 1738; and an Egyptian rendering in the lower lines.

Meaning	Micmac	Ancient Egyptian	Meaning	Micmac	Ancient Egyptian
Pallerye	X		men	Ŧ	1
mountains		\sim	ram, sheep	- TOOO	SAM.
metal	000	000	mouth		9
silver	0000	In:	1, to walk, go 2, det. for motion	8	Λ
gold	J.00	क्र	flowing	28	ಉಡ
stone	П		to become	28	#
sand, dust	0 0 0	0 0 0	and, also	A	
sea. lake	<u></u>	<u> </u>	aut of, Iram	界	
river	~_	==	them, their	h	(Im
to be like	I	1	I, my, me	F	8
idols	XX	四四四	thou, thee	9	9

Examples of Micmac and ancient Egyptian hieroglyphs of similar form and meaning. Whereas the Micmac hieroglyphs were already in use before 1738, when the Abbé Maillard adopted them for his Manuel Hieroglyphique Micmac, the ancient Egyptian equivalent signs were not deciphered until 1823, when Champollion published his first paper on the Rosetta stone. Ideograms in the above table include evidence that the ancestors of the Micmac people were familiar with metals, and employed the same hieroglyphs for silver and for gold as were used by the ancient Egyptians.

The Egyptian Presence

5/1
The Micmac are a tribe of Algonquian Indians inhabiting Acadia, the eastern provinces of Canada, and they are closely related to various tribes of Maine commonly called the Wabanaki, or Men-of-the-East. Reference to Schoolcraft's great work on the American Indians showed that he
reported to Congress in 1851 that "reading and writing are altogether un-
known to them" (i.e., to the Algonquian Indians). This statement, com-
bined with a recorded claim by an eighteenth-century French priest,
Pierre Maillard, that he personally invented the Micmac hieroglyphs,
seemed to establish the reputed modernity of the writing system. Had
Maillard, then, studied Egyptian hieroglyphs in order to invent his Mic-
mac system? A check on dates soon showed that this would be impossible,
for Maillard died in 1762, 61 years before Champollion published his first
decipherment of the Egyptian hieroglyphics. Any resemblance between his
system and that of the Egyptians would have to be due to pure chance.
So I asked John to look for more examples of Micmac writing, if these
could be located in the Widener Library or elsewhere. He soon came
upon a copy of a 450-page book in Micmac hieroglyphs, the work of Father
Maillard, containing much of the Catholic order of the Mass, a catechism,
a religious history, and translations of psalms and hymns. This was
printed in Vienna during the years 1863-1866 from original manuscripts
bequeathed by Father Maillard to the Micmac Indians at the time of his
death in 1762. It proved to contain hundreds of different hieroglyphic
signs, a considerable proportion of which are clearly derived from, or even
identical with, ancient Egyptian hieroglyphs or their hieratic equivalents.
Examples of the writing and its Egyptian counterpart are shown in the
tables accompanying this chapter.
At was now quite obvious the Microsc writing system (and also nost

As was now quite obvious, the Micmac writing system (and also part of their language) is derived from ancient Egyptian. But how could this be? Surely Maillard could not have secretly deciphered the Egyptian language himself; besides, he is not known ever to have traveled to Egypt or to have been involved in any activity beyond that of the devoted care of his Indian flock, who lovingly preserved his manuscripts for 120 years. So we now had the makings of another first-class mystery. At John's earnest request on my behalf, the librarians at Harvard began to make available to us all relevant books on the Micmac and Wabanaki Indians. From some of these (listed in the bibliography at the end of this book) I now learned the truth of the matter.

It turns out (on the evidence of Father Maillard's contemporaries and successors) that he did not really invent the writing system but, instead, he borrowed and adapted a system of writing already in use among the Indians at the time when Cardinal Richelieu first dispatched French missionaries to work among the Canadian Indians. From various deposi-

Meaning	Micmac	Ancient Egyptian	Meaning	Micmac	Ancient Egyptian
reed, grass	50		1oday, now	2	
lo keep sale. preserve	1	Ω	water, ráin	777	****** ******
Greetings ⁵	2111	Щ	dwelling, sanctuary		
shining, glory		+ +	Earth, lower world	1	8
rock slab	гŝп	△ <u>†</u>	heaven	*	7
not	()	~~	burn to ashes	~9	000
make an offering			fire	200	
tremble, earthquake	∃E	<u></u>	to skip about, leap	will	50
come in haste	80¦◊	1 000	faults, sins	2	00
full, all	₹	0	fruit	700	ſê

Some more examples of closely comparable Micmac and Ancient Egyptain hieroglyphs, the former all taken from the Micmac manuscript begun by the Abbé Maillard in 1738 and continued until his death in Nova Scotia in 1762. A pre-liminary study suggests that several thousand of the Micmac hieroglyphs are derived from Egyptian models. As the modern decipherment of Egyptian began only in 1797, when Zoega deduced the meaning "name" for the cartouche sign, it is evident that the Micmac hieroglyphs must already have been transmitted to North America more than 2000 years ago, when they were still in use in Egypt.

5 co 3 after, in back of before in trant or Jorth Irons from, out of among most, est eternity torwards. (superlative affix) 00 that (conjunction) this, it because summer heat darkness sustenance meal, feast fear, terror way, road glory, light word depth

Words such as prepositions, adverbs, conjunctions, and other words that have no obvious representation by natural objects can only be rendered by purely arbitrary ideograms. The striking parallels between the Micmac and the Ancient Egyptian signs for these add convincing proof that the North American and Egyptian writing systems are directly related. In the above pairs, the Micmae sign is shown to the left, and the Egyptian to the right, both signs of every pair having the same meaning. Other unremarkable parallels are seen in the cross-signs, which share the identical yet unrelated meanings because and most.

tions made by authorities listed in the bibliography (section 9, page 304) it is clear that when the first Christian instruction was given to the Micmacs, the French priests noticed that some children appeared to be making signs on birchbark while the priests were preaching. When questioned later, the children explained that they were recording some of the statements. They explained that a five-pointed star represents heaven, and a circle represents the earth, and so forth.

Father Eugene Vetromile (1866) relates the same of the Wabanaki Indians among whom he worked in Maine, and his account, the most illuminating, may be taken as applying evidently to the Micmacs. It is as follows, and his statements are supported by other missionaries, notably by the Rt. Rev. Bishop Colin F. MacKinnon, Bishop of Arichat, and a leading authority on the Micmac Indians.

When the French first arrived in Acadia, the Indians used to write on bark, trees, and stones, engraving signs with arrows, sharp stones, or other instruments. They were accustomed to send pieces of bark, marked with these signs, to other Indians of other tribes, and to receive back answers written in the same manner, just as we do with letters and notes. Their chiefs used to send circulars, made in the same manner, to all their men in time of war to ask their advice, and to give directions.

From this evidence it is clear that we have for long been mistaken in thinking of the Micmac writing system as a modern invention, and hence unworthy of serious study by any epigrapher interested in the history of writing systems in ancient times. Father Vetromile goes on to say that he has in his personal possession three manuscripts in the Micmac hieroglyphic style. This was, of course, in 1866, and so far I have been unable to trace the present whereabouts of his manuscripts, two of which, he says, were written by Indians. Vetromile also states:

Several Indians possessed (in the time of the first French missions) in their wigwams a kind of library, composed of stones and of pieces of bark, and the medicine men had large manuscripts of these peculiar characters, which they read over the sick persons. . . . The Indians assert that by these signs they could express any idea with every modification, just as we do with our writings. When the French missionaries arrived in this country they made use of these signs, as they found them, in order to instruct the Indians. Fathers Mainard [sic, Maillard is doubtless intended] and Le Loutre improved them, and others were added in order to express the doctrine and mysteries of the Christian religion.

Father Vetromile records that similar writing was employed by all the northern Algonquian tribes, the Micmacs, the Wabanakis, and the Etchemis of northern New England included. He says that he has met 260 America B.C.

older people among the Indians at Oldtown, Maine, who remember a time when the writing was inscribed vertically, and also horizontally (as today) but in either direction, He adds:

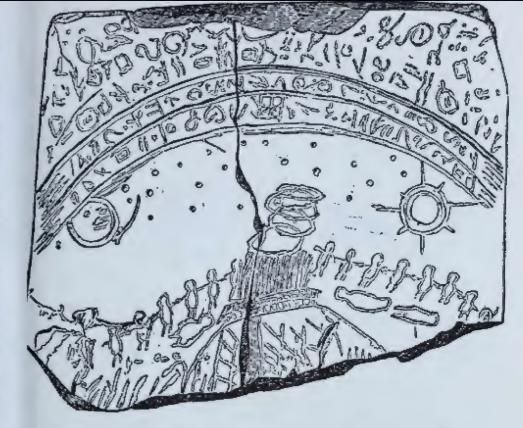
I hope that this kind of writing will not be suffered to be buried in silence amongst the ruins of time, but that the memory of this kind of scripture shall be transmitted to future ages, to show the antiquity and education of the noble and gentle but ill-fated Abnaki.

Thanks to the resilience of the Indians of Acadia, the Micmacs in particular, and thanks also to the actions taken by the French missionaries, Father Vetromile's wish has been fulfilled. It is now our task to investigate the probable manner in which Egyptian writing came to the northern Algonquian tribes.

The first question that occurs is: "Are the Micmac and related Algonquians the descendants of ancient settlers from Egypt?" The answer is certainly "No." For their language is Algonquian. However, a limited but recognizable Egyptian vocabulary is present, suggestive of contacts with Egyptian or Libyan speakers from whom these words could have been acquired as loan elements, at the same time as the writing system was acquired.

Is the writing system an ancient acquisition of the Algonquians? Here the answer is apparently yes; for the various Algonquian tongues, especially those of the northern tribes, are rich in vocabulary connected with writing and writing implements and materials. These words are dissimilar to French and English words for writing, but sometimes quite similar to Egyptian words for these ideas. An extensive list of words of this category appears in the oldest Wabanaki dictionary, that prepared in Maine by Father Sebastien Rasles (whose missionary work began in 1690). The original manuscript of Rasles' *Dictionnaire* is preserved in Harvard College Library, its opening passage showing that he began to compile it in 1691; he was still working on it when he was killed by British soldiers in 1724, during the attack on Oldtown, Maine, where his monument now stands. Rasles, too, was familiar with the hieroglyphic writing system, though he did not make use of it.

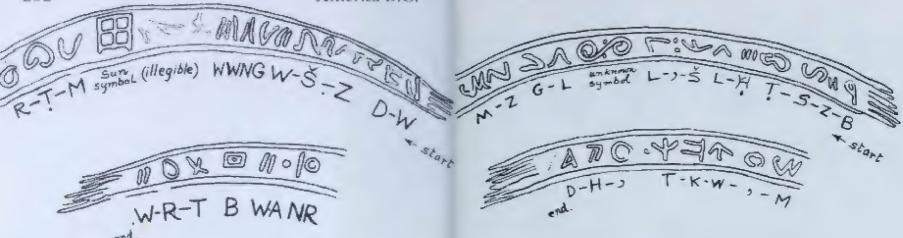
While pondering how to determine the antiquity of Egyptian writing in the Americas I naturally spoke of these remarkable facts to my various colleagues. One of them, James Whittall, learned from another archeologist that there are relics of Father Rasles in private ownership in Massachusetts, these including bronze artifacts of the Wabanaki, and also that some birchbark manuscripts are in existence in at least one collection. These facts we have not yet had time to investigate, but luckily John Williams came upon one telling piece of evidence reported in the scien-



The Davenport Calendar stele, found in a burial mound in Iowa in 1874 by the Reverend M. Gass, together with numerous other artifacts of North African and Iberian origin or relationship. This inscription is written in three languages, Egyptian hieroglyphs at the top, then Iberan-Punic from right to left along the upper arc, and Libyan from right to left along the lower arc. The Libyan and Iberian-Punic inscriptions say the same thing, namely that the upper hieroglyphs contain the secret of how to regulate the calendar. The hieroglyphs give this information by indicating that a ray of light falls upon a stone called the "Watcher" at the moment of sunrise on New Year's Day, which is defined as the spring equinox in March, when the sun passes the first point of Aries. This stele, for long condemned as a meaningless forgery, is in fact one of the most important steles ever discovered, for it is the only one on which occurs a trilingual text in the Egyptian, Iberian-Punic, and Libyan languages. It is in the Putnam Museum, Davenport, Iowa, the repository of other pricless national treasures found by Gass. (From S. D. Peet, The Mound Builders, 1892.)

tific literature of the 1870s. This evidence comes from a distance of some 1,500 miles from New England, from the prairies of Iowa.

One day in 1874 a Reverend M. Gass, assisted by two students, was engaged in opening a small burial mound near Davenport, Iowa. Near the surface they found an intrusive Indian burial of obviously modern date but, as they descended deeper into the mound they began to uncover



The Libyan text of the Davenport stele from the Iowa mounds, see page 261. Read from right to left the inscription is as follows:

W.D	Z-S	W-W	G-N-W-T	******	Sun sign	M-T-R	R-N	W-A
The	is		with a	(illeg-		IIt	the	the
stone	inscribed	around	record	ible)		reveals	naming,	length,
				n	531			
				B T-R				
				the of t				
			pla	icing seasi	ons.			

The Libyan inscription conveys the same sense as the Punic-Iberian inscription that occupies the other arc, immediately above the Libyan arc. Vowels are omitted from ancient inscriptions. A fuller account of the decipherment, with dictionary references to the words, may be found in the Occasional Publications of the Epigraphic Society, vol. 3, 1976. The checkerboard sun symbol is the same as is seen on the equinoctial calendar temple near South Royalton, Vermont (see page 55), and it is possible, therefore, that this symbol has a special reference to the use of the sun as a calendar regulator. On one of the inscriptions at Cachão da Rapa, in Portugal, the same sun symbol is set beside Ogam letters that spell the Libyan word Ra (Sun), see page 70.

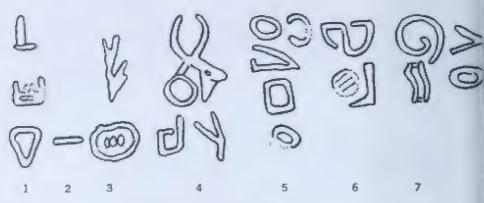
the skeletons of the persons for whom the mound had initially been raised. There were two adult skeletons, and a third skeleton of a child placed between them. Nearby they found an engraved tablet, now known as the Davenport Calendar Stele. This was extensively engraved with strange signs (page 261) and came into the ownership of the Davenport Academy of Science, now the Putnam Museum. It aroused much interest at the time. Later it was all but forgotten, for scholars at Harvard and the Smithsonian Institution declared it to be a forgery. The main grounds for this opinion were that the writing could not be read by anyone, that it contained some letters resembling the letter O, and the numeral 8, together

The Punic-Iberian text of the Davenport stelc from the Iowa mounds, see page 261. Read from right to left the inscription is as follows:

The Punic-Iberian inscription conveys the same sense as the Libyan inscription placed beside it (see page 262). Neither the Libyan nor the Punic-Iberian scripts had been deciphered at the time when the Davenport stele was uncarthed in 1874, yet both texts yield intelligible and mutually consistent readings, the words being all found in standard dictionaries (see Occasional Publications, vol. 3, Epigraphic Society, for details). These facts show that the stele cannot possibly be a forgery as has mistakenly been believed since 1890, when an archeologist at the Smithsonian Institution declared the inscriptions to be a meaningless jumble of signs based on the English alphabet. No one appears to have noticed the Egyptian part of the inscription which could have been translated at that date. Fortunately the Davenport Academy preserved the stele, together with the associated artifacts, now seen to be of North African and Iberian provenance.

with at least one N and one F, and some signs resembling Hebrew and others resembling Phoenician. For these reasons the stone was considered to be a worthless and meaningless fake! Luckily the Davenport Academy preserved the stone, in spite of various claims that it is a forgery.

I give in this chapter and in the diagrams (pages 262-265) the various parts of the inscription and their decipherment. They are based on my study of the published illustration of one face, which John found in one of the contemporary reports held in the Harvard Library. Our colleagues of the Early Site Research Society, now that they are apprised of its importance are taking steps to have photographs of it and of

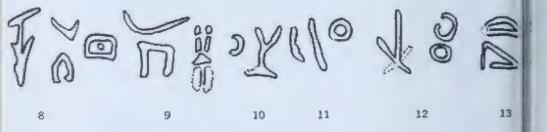


Translation

- 1. Read from above downwards: To a pillar/attach/a mirror/
- 2. /so that/
- 3. Read from above downwards: /at New/Year/
- Read from above downwards: /the sun being in conjunction with the Ram/ in its house (i.e., zodiacal constellation)/
- Read from above downwards: /at the tilting of the balance (i.e., of night and day, the equinox)/in the Spring/
- 6. /the Festival/
- 7. /of celebration of the First of the Year/

Phonetic rendering

- 1. t-h-n m-n-i o-n-h 2. r 3. r-n-p w-p-t-r-n-p-t
- 4. Re-S-b-i p-r S-b-i 5. r-kh-w P-r 6. h-b 7. w-p-pl

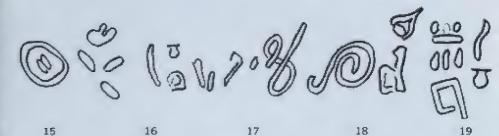


Translation

- /and religious rites of the New Year/
- 9. /are to take place/
- 10. /(when) The Watcher/
- 11. /stone/
- 12. /at sunrise/
- 13. /is illuminated/

Phonetic rendering

8. Rn-n-pt 9. kh-pr 10. w-rs 11. i-n-r 12. dw-w 13. t-k.



Translation

- 14. /by/ 15. /the sun./
- 16. /(signed) Star-watcher/
- 17. /Priest/
- 18. /of Osiris/
- 19. /of the Libyan region/.

Phonetic rendering

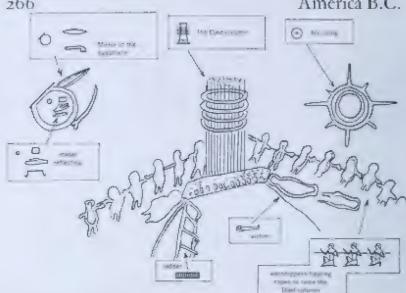
- 14. i-n 15. Re 16. w-n-t-y 17. ntr-nmh
- 18. W-sir 19. Th-n-w w.

other inscribed stones sent to us for study. So far as can be determined at present, one side of the Davenport stele gives the following remarkable information.

In the middle of the stele is an engraved scene, and around it are inscriptions in three languages, namely Egyptian, Iberian Punic, and Libyan, each in its appropriate alphabet or hieroglyphic character. The Iberian and Libyan texts, written on engraved scrolls, each report that the stone carries an inscription that gives the secret of regulating the calendar. These parts of the inscription and their alphabets are shown on pages 262 and 263. The remainder of the inscription is in Egyptian hieratic hieroglyphs, and the details of the decipherment are shown here and on the opposite page. The Egyptian text, given literally in the captions, may be rendered into English as follows:

To a pillar attach a mirror in such manner that when the sun rises on New Year's day it will cast a reflection on to the stone called "The Watcher." New Year's day occurs when the sun is in conjunction with the zodiacal constellation Aries, in the House of the Ram, the balance of night and day being about to reverse. At this time (the spring equinox) hold the Festival of the New Year, and the Religious Rite of the New Year.

The tablet carries an engraving which depicts the Egyptian celebration of the New Year on the morning of the March equinox (corresponding to the modern date March 2t, but later in March in ancient times). This



The Djed Festival of Osiris as celebrated in Iowa around 700 B.C. Explanation of the scene depicted on the Davenport stele, the hieroglyphs incorporated into the picture being here translated, and also rendered in the formal Palace style. The Djed column, made of bundles of reeds encircled at the top by rings, represents the backbone of Osiris, in whose honor the Djed column was erected each year on the day of the spring equinox. This information, originally obtained by Adolf Erman from a tomb inscription of the XVIII Dynasty in Thebes, Egypt, is here completely confirmed by the inscription and illustration on the Davenport stele of Iowa. The mirror of reflecting metal, shown to the left of the picture, relates to the Egyptian text of the stele, which instructs the reader to attach a mirror to a column in such a way that the rays of the rising sun, on the morning of the spring equinox, will be reflected onto a signal stone called the "Watcher."

festival consists in the ceremonial erection, by parties of worshippers pulling on ropes, of a special New Year Pillar called the Djed. It is made of bundles of reeds, surmounted by four or five rings. It represents the backbone of the god Osiris.

To the left is seen a carving of the mirror, and beside it are hieroglyphs that read "Mirror of the Egyptians." On the mirror are hieroglyphs that read "reflecting metal." To the right is the rising sun, with the hieroglyph Ra (Sun god or Sun) written on the disk of the sun. Stars as seen in the morning sky are above. As the caption on the illustration shows, the lowa stele confirms what we already know from evidence yielded by a tomb in Thebes, about the ceremony of the Djed column on New Year's day. The Egyptian record tells us that the ceremony occurred in Kotakh, a word meaning the month of March, again confirming the statements on the Iowa stele. The Egyptian text of the Davenport stele goes on to say



A recent photograph of the Djed Festival tablet, courtesy of the Putnam Museum, Davenport. The detail, here shown photographically enhanced by Malcolm Pearson, presents certain discrepancies from the original published engraving shown on page 261. In particular some letters appear to have been abraded from the area of the mirror, on the left. The suggested decipherment, given on page 266, is based on the engraving; it is possible that the inferred reading "Mirror of the Egyptians" and "Metal reflecting" may have to be discarded, but they are left on page 266 as a plausible interpretation of the now-lost signs.

that it is the work of Wnty (Star-watcher), a priest of Osiris in the Libvan regions.

How did this extraordinary document come to be in a mound burial in Iowa? Is it genuine? Certainly it is genuine, for neither the Libyan nor the Iberian scripts had been deciphered at the time Gass found the stone. The Libyan and Iberian texts are consistent with each other and with the hieroglyphic text. As to how it came to be in Iowa, some speculations may be made.

The stele appears to be of local American manufacture. Perhaps made by a Libyan or an Iberian astronomer who copied an older model brought from Egypt or more likely from Libya, hence probably brought on a Libyan ship. The Priest of Osiris may have issued the stone originally as a means of regulating the calendar in far distant lands. The date is unlikely to be earlier than about 800 B.C., for we do not know of Iberian or Libyan inscriptions earlier than that date. The Egyptian text, as stated above, may merely be a local American copy of some original. That original could be as old as about 1400 B.C., to judge by the writing style.

More, I think, should not be said at this time, for the subject is still under active study, and not all of the inscribed material from Davenport has yet been seen. But it seems clear that Iberian and Punic speakers were living in Iowa in the 9th century 8.6., making use of a stone calendar regulator whose Egyptian hieroglyphs could apparently be read. The settlers had presumably sailed up the Mississippi River to colonize the Davenport area.

I would hazard the guess that the colonists first came on board ships commanded by a Libyan skipper of the Egyptian navy, during the 22nd or Libyan Dynasty, the pharaohs of which were energetic men who favored overseas exploration. With them probably came an Egyptian astronomer-priest. Either he, or his successors, engraved the Davenport Calendar Stele.

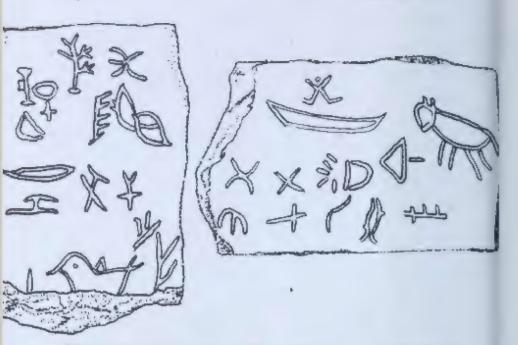
Probably around this time came other Egyptian astronomer-priests, accompanying other expeditions, such as that to Long Island, New York (page 270), and the Libyan voyagers who reached Quebec, to leave there the inscription found two years ago by Professor Thomas Lee of Laval University. These voyagers may well be the people who settled New England, teaching the ancestors of the Miemac and Wabanaki how to write Egyptian hieroglyphs. Since hieroglyphs are ideograms, and can be read (as ideas, not sounds) in any language, it would not be difficult for the learned Libyans or Egyptians to teach their fellow colonists and native Indians how to read and write hieroglyphs. With the passage of time the modern Algonquian language would come into existence (Chapter 18), and then the hieroglyphs would be pronounced as Algonquian.

As I close this chapter, then, my colleagues and I are actively seeking

meaning	formal or Palace style of Egypt	informal or hieratic style of Egyps	hieratic style of Iowa
the god Osiris	D L	Organ	THE OF
the New Year Festival		120	FÃO
sunrise	* %	⊁ ల్ల	*3
stone	0	1(0	(10
illuminated	Q	2	
priest	90월	118	238
Star-watcher	* 1 5 11	十月分升	8 60 00 C

Examples illustrating the script styles employed in the formal hieroglyphic inscriptions of public monuments in ancient Egypt, the hieratic or informal script of ancient Egypt, and the hieratic style of the Davenport stele of Iowa. Use of the spiral sign in place of the chicken symbol for the sound W points to a date later than about 1400 a.c., and the presence of Iberian and Libyan script on the same stele probably brings the date to about 800-700 b.c. This would correspond to the XXII (Libyan) Dynasty of Egypt, at which epoch it is likely that Libyan Pharaohs would encourage distant voyages. The priest who inscribed the tablet, whose name seems to have been Star-watcher, probably accompanied a mainly Libyan expedition that established a colony in Iowa by sailing up the Mississippi River.

270 America B.C.



Bilingual Egypto-Libyan inscribed tablet in the Museum of the American Indian, New York, originally discovered about 1888 in a shell midden at Eagle Neck, Orient, at the eastern tip of Long Island. Until now it has been supposed to be an Indian petroglyph recording a hunting trip. It has never been considered spurious and, indeed, the Libyan inscription (right) which matches the Egyptian (left) could not have been forged, for Libyan was not deciphered until 1973. The tables on pages 271 and 272 give the comparative analysis of the elements of the script, which probably dates from about the ninth century B.C., though the actual tablet itself may be an Algonquian copy of the original (some of the Egyptian signs are written in the Micmac manner). The Egyptian text may be translated as "A ship's crew from Upper Egypt made this stele with respect to their Expedition." The Libyan text may be rendered as: "This ship is a vessel from the Egyptian Dominious," and is notable for employing one Egyptian hieroglyph (as the table on p. 272 explains). Details of the decipherment are given in the Occasional Publications vol. 3 of the Epigraphic Society. Features of the script suggest a connection with the Micmac hieroglyphic script, a fact which, taken together with the recent recognition of Egyptian vocabulary in the Micmae language, suggests that early visitors from Egypt during the Lihyan (XXII) Dynasty may have traded with the Algonquians and taught these Indians how to use ideograms to express their own language in writing. Drown by Daniel A. Young, Houe Foundation, New York,

Sound	Style of Tunisia and Numidia	Style of Libyan visitors to Long Island	Style of Libyan voyagers in Pacific (Ancient Maori)
d, ţ	П	\wedge	П
Р	X	\times	X
(e) t	+	+	+
1 (a)	×	X	X
m	U,)	((,U
h (i)	Ξ,Ⅲ,	7,	III,2, ≭
r	D,Q,O	D	O, 🗆
w	=,	Л	=,
3 (= a)	4, 0	4	unknown
S, 2	_		
Egyptia Dominio	n hieroglyph ons HHE	war	unknown

Libyan alphabetic signs appearing on the tablet from Orient, New York, compared with other Libyan alphabets. The Libyan text of the tablet is given on page 270, with a translation. The phonetic rendering of the lower section of the tablet, left to right, is "d-p-t T-m-i-r W-à-s" (vessel from Egyptian Dominions), and the top line reads "Ta d-p-t" (this ship).

Explanation of the Egyptian words on the Orient, Long Island, tablet from New York, illustrated on page 270. The sign in the Long Island rendering of the second figure of a seated man in the word expedition differs from that of hieratic of Egypt, but matches the hieroglyph still used in modern Miemae hieroglyphic writing. This fact, together with the incongruous presence of two representations of animals (sea fowl and bear) on the tablet, suggests that this tablet is not the original stele, but rather an Algonquian Indian's copy of the original. The phonetic rendering of the hieroglyphs in the Egyptian language is given in the column on the left, but it is possible that the tablet was read as Miemae, for which the same Egyptian hieroglyphs can serve as a writing system.

This tablet, no. AR15330 in the Putnam Museum, Davemort, is the reverse face of the slate slab depicting the Died Festival. The slate separated afterwards by cleavage, and each side has been imbedded in plaster, the writing delineated with talcum. A decipherment of the Micmae inscription is given separately on page 274. The seene depicted is the corresponding equinoctial Hunting Festival, held in September, six months after the Died Festival, and marking the second half of the Celtie year. As the Egyptians did not divide the year in this manner, the tablet implies that Celtic characters were probably retained by the Algonquian culture even after their partial Egyptianization and replacement of Ogam script by Hieratic, which in turn became the Micmae script. As the inscription explains, the hunting scene in the foreground deals with the September butchery and smoking of young wildstock, including waterfowl and fish. The conserved portion of the wild fauna, labeled "Herds of the Lord," is shown left immulested in the upper part of the picture. This engraving, by its writing style seen to be an American original, dating little earlier than 500 n.c. (and possibly as late as 100 A.D.), implies in turn that the Djed Festival scene on the March equinox face must also be an American production, probably by the same engraver; but the Djed scene, incorporating three different scripts, none of them Micmae, must have been imitated from an older original, probably brought to North America from Libya, Putnam Museum, detail photographically intensified by Malcolm Pearson.



into place; for the states where they occur, such as Tennessee and Kentucky, are lands that border the Mississippi, where ancient colonists were accustomed to sail. There are still many pieces missing from the jigsaw puzzle, but at least now we perceive its nature and the manner of its ultimate solution. As the mound burials and the urns give up their honored dead I find no disrespect in such disinterments. For out of the dust of our remote predecessors there is now emerging a grand historical vista in which we perceive the wide range of ethnic stocks that contributed to the ancestry of the Amerindian peoples, and brought art and science to the New World. Now Egypt too is added to the tally.

18

The Algonquians

HE Algonquian nation comprises the most numerous and most widely dispersed linguistic group among the North American Amerindians. From the Montaignais of southern Labrador in the northeast they range Canada so far west as the Rocky Mountains. In the United States they once occupied the coastal Atlantic lands so far south as North Carolina, inland to Kentucky, skirting the Iroquois salient to the east as far north as Maine and Nova Scotia, and on the west as far north as Minnesota, where they join the Canadian Algonquian belt. Some fifty tribal dialects occur.

In the east of the country the Algonquians no longer occupy their old tribal territories, though large numbers must have intermarried with modern colonial settlers. Such integration was inevitable, for the old paintings show that the eastern Algonquians closely resemble southern European and Mediterranean people, and that when they donned European dress, they were scarcely to be distinguished from other settlers. Towards the west of their range a more Mongolian aspect is evident, and were we oblivious of every other detail of their history, we might well suppose that the western Algonquian tribes have a higher proportion of Asiatic ancestry. This is consistent with their proximity to the region from which Asiatic immigration might be expected to occur; and by the same tokens we might suppose that the eastern Algonquians have somehow acquired a European cast of features by some ancient immigration from Europe.

In this chapter I discuss the origin of the Algonquians in the light of three main sources of evidence, namely (1) What their own traditions have to say on their origin and ancestry, (2) What evidence is provided by the archeological remains so far explored, and (3) What evidence is yielded by the modern spoken dialects of Algonquian.

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Mark September Mark Ma			
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The Micmac language has evidently acquired much of its technical and astronomical vocabulary from ancient Egyptian, as this comparative table illustrates. The ideas listed in the left-hand column in the English language are expressed in the Micmac language by the words given in the middle column (compiled from vocabularies given by Chief Sozap Lolo Kizitogw in 1884 and by Dr. Silas T. Rand in 2902). In the right-hand column are the matching words in ancient Egyptian, taken from Professor Raymond O. Faulkner's Dictionary, 1972. Some of the Egyptian words require explanation. The checkerboard sign is part of the hieroglyphic rendering (called the determinative) of the expression "checkerboard of the Aton," the Aton being the deified disk of the sun. Why a checkerboard should be associated with the Aton is not clear, but the Micmac word atnakuna implies this connection, as also has been inferred (chapter 6) from other evidence. The "night-bark of the sun" in Egyptian religion was supposed to carry the sun at night, when the sun was invisible, hence the association with an eclipse is logical. Amen-Ra, the Sun-god himself, was assigned to the highest heaven during periods in Egyptian history when sun worship was predominant (as during the Libyan XXII Dynasty, when visits to North America evidently occurred). The root wata for star is at present known only from Libyan and Polynesian contexts. Officers of the Egyptian navy were required to be skilled scribes, the highest ranks being reserved for holders of the degree of First Class Scribe; hence the transfer of Egyptian and Libyan hieroglyphic skills, as well as actual vocabulary, could be expected during voyages of exploration along the North American coasts.

I. TRADITIONS

It is both common sense and courtesy to listen first to what the Algonquian peoples themselves have reported to early investigators. These seem first to have been made public by John Johnston, an agent of the Shawnee tribe, in the year 1819 in a letter dated July 7 and subsequently reprinted in the first volume of Archaeologia Americana (page 273), and later still reprinted by Schoolcraft in 1851 in his Indian Tribes of North America. Johnston wrote:

The people of this nation have a tradition that their ancestors crossed the sea. They are the only tribe with which I am acquainted which admit to a foreign origin. Until lately [i.e., 1819] they kept yearly sacrifices for their safe arrival in this country. From where they came, or at what period they arrived in America, they do not know.

It is perhaps also significant that the Algonquians had retained a tradition, still alive when Johnston made his written report, that there were other foreign people in America too, in former times. Johnston says, on this point, that the Algonquians informed him as follows:

It is a prevailing opinion among them that Florida had been inhabited by white people, who had the use of iron tools. Blackhoof [a celebrated chief] affirms that he has often heard it spoken of by old people, that stumps of trees, covered with earth, were frequently found, which had been cut down by edged tools.

These traditions of the Algonquian people deserve serious consideration. Also warranting careful consideration is another tradition concerning the names assigned to certain stars. The constellation of the Great Bear was distinguished by various Mediterranean peoples of the Bronze Age, among them the Greeks, who called it by the name Arctos, and the Romans, who called it *Ursa Major*, both names signifying Bear, though there is nothing about the stars of the group to suggest why they were given that name. Whether Celts or Iberians or any other European or Mediterranean nation may have carried this traditional designation to America we cannot at present tell, but it is a fact that when Cotton Mather inquired of the Natick Indians in Boston as to what knowledge they had of the motions of the stars, he wrote (in a letter addressed to the Royal Society, London, in 1696): "It has been surprising unto me to find that they have always called Charles' Wain by the name Paukunnawaw, or The Bear, which is the name whereby Europeans also have distinguished it."

In the Micmac dialect of Algonquian the word used for bear is moocen,

Antiphona.

> 3 3 8 6 > 5 1 P 3 78 8 > > II III SKN MAK ≪ S 3H4 I KZ IN まる II (Men de A m ch) ジャ alux zo ch norse 0>5 >v*= CXA>> San OA 起 Psaim. In exitu Israel. 830x co - >= >= >= >= >= S

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What can now he seen to have been the greatest cultural achievement of the French Missions Etrangères of the seventeenth and eighteenth centuries in northeastern North America was the preservation of the Ancient Micmac hieroglyphic writing system. In this edition of the Maillard manuscripts based on Austrian plates engraved from Maillard's papers in 1865, more than 600 signs are employed. The page opening gives Maillard's translation of Psalm 115, In exitu-Israel. This text is also referred to on page 274.

and in 1884 Dr. Silas Rand noticed and recorded the fact that the Micmac name of the constellation is also Mooeen. This fact, taken with the observation by Cotton Mather, where a different word is involved, shows that a definite transmission of an astronomical idea occurred between the Old World and New England and Nova Scotia, and that the matter cannot be explained away as merely a coincidental similarity of names. To my mind the facts show that ancient mariners brought to the New World a knowledge of old Mediterranean beliefs about constellations, and in particular about the mariners' direction-finder and clock, *Ursa major*.

These traditions, scanty though they be, seem to imply a former cultural connection, to say the least, with peoples of the Mediterranean lands and Europe.

2. ARCHEOLOGICAL EVIDENCE

As the material in this book shows, there is abundant epigraphic evidence in the form of inscribed stones and buildings to show that New England was either visited, or in some cases, settled, by European and Mediterranean peoples who employed the Celtic, Basque, Phoenician and Egyptian languages. This evidence is consistent, therefore, with Algonquian tradition if we suppose that the visitors were in fact ancestors who remained in America, presumably intermarrying with preexisting inhabitants of an original Mongolian stock. On this interpretation, the Algonquian people would be of mixed ancestry, with a higher proportion of Mongolian blood in the west, and a higher proportion of European on the eastern seaboard. The inference may be tested against linguistic evidence next discussed.

3. LINGUISTIC EVIDENCE

Russian investigators (see Bibliography, section 10) have assembled vocabularies amounting to some 25,000 words from the many nomadic tribes that inhabit the northeastern extremity of Siberia, and the adjacent islands. These, together with studies of the grammatical structure of the languages, exhibit very clear affinities with tongues spoken in the northwest of the North American continent. It is clear that communication and even migration has occurred between Asia and North America in quite

recent times. It is highly probable that similar communication and migration has occurred for thousands of years.

We can extend these studies to the Algonquian languages, and work now in progress shows that substantial numbers of Siberian roots occur in the western dialects of Algonquian, the proportion diminishing as one passes eastward into the New England region, and into Nova Scotia. The facts can be illustrated by referring to particular words, and tracing their distribution along the track I have indicated. For example, the word matsu, and similar forms, designates "tree" in the northeast Siberian tongues, the root element being the syllable ma-. As one passes into the Americas, words very similar to matsu are used for tree all across the Algonquian belt until one reaches New England. There an abrupt change occurs, and the word for tree in the Wabanaki dialect of Maine becomes abassi. Now abassi means "foeman" in the Siberian tongues, so why does it designate tree in New England? The answer is simple, it is not a Siberian word at all, but instead a well-known Semitic word, meaning "tree" and still in use to this very day among the Hebrew-speaking people of Israel, the language of which is related to Phoenician.

Evidently in this case, as in others that need not be listed here, the older Siberian word of the Algonquians has been displaced in the east by a word introduced from the Mediterranean lands. Similar evidence is provided by many hundreds of other words of clearly Semitic origin, found in the modern Wabanaki language, but lacking from the western dialects of Algonquian, where apparently the Phoenicians did not penetrate.

Celtic words are far fewer in the east Algonquian dialects, and most of them relate to topographic features, as discussed in a previous chapter. The following table lists some other words of probable Celtic origin that are still in use in the northeastern Algonquian dialects.

TABLE 9

MEANING	N.E. ALCONQUIAN	GAELIC
woman	bhanem	ban
immigratit	al noba*	allaban
netting	Ihab	lion-obhair
town	odana	dun
everywhere	na'lwiwi	na h-uile
frost, snowflake	kladen	cladan
bout	pados	bata
mountain	monaden	monadh
height	aden	and
gorge	cuiche	cuithe

^{*} literally, person.

That there were substantial injections of Egyptian vocabulary, also, is apparent from the hundreds of roots in Wabanaki and Micmac that have now been identified: and in the case of the Micmac tribe, the writing system is also one derived from Egypt, Following are examples of Egyptian roots still in use.

TABLE 10

MIANING	N.E. ALGONOPHAN	EGYPTIAN
sun, sun god	Nepauz	N-b-w
moon, moon goddess	Nepauz-had	N-b-w h-d
thunder	ncem	n-h-m-h-m
foul	nish	n-s-w
erect, be erect	riepau, nepatiu	n-b-w, n-b-i
child	nerchnew	n-kh-n-w
plus (with numerals)	nab	n-b
bring back	nayew	m-w-y
feed and protect	nadt-uppo	n-d o-b
inquire for news of	nadrow-wompu	mal wapawa
hence, because	na	n
water, wet	леір	пърна
a piece, one	nequet	m-ke-t
see, look	na	n
to be weak	nauv	II-W

That Norse visitors came to America is attested by archeological remains in eastern Canada. We might reasonably expect some trace of these visits in the languages of the region, such as Micmac, and as the following table shows, there is such linguistic evidence.

TABLE II

MEANING	N.E. ALGONQUIAN	NORSE
bay	bookt	bukt
boat	pados	bata (or Celtic)
the wind is blowing	wejoo-suk	vejret sukker
I am well	wel-ae	vel äro
it is (getting) hot	weksa-dek	vaeckser hedt
bob up and down (fig.)	weksit-paktesk	fiske efter torsk
горе	lab-	reb
must	ITT-0:5	maa

This chapter has done no more than sample an area of linguistic inquiry that is still very poorly understood. Whatever the uncertainties, I

think we must prepare ourselves for one more jolt to our conception of the Atlantic as a barrier impassable to man until Viking times. Far from serving as an impassable barrier between the European and American worlds, it may actually have been a challenging highway, one free from the opposition of hostile tribes, demanding not brute strength for its passage but ingenuity and tenacity. If Neolithic man of Europe had the courage and skill of Neolithic man in Polynesia, then we may well find that the first great Atlantic navigators were among the earliest ancestors of the Algonquians.

The Algonquians

Whether or not any Atlantic crossings were made in Neolithic times, it now seems indisputable that numerous crossings took place during Bronze-Age times, including trading ventures year by year, as well as voyages to carry out permanent settlement. The voyages and colonizations during the Bronze Age were performed by the European and Mediterranean peoples whose vocabulary has given rise to that of the modern dialects of the eastern Algonquians, and the eastern Algonquians themselves are for the greater part descended from these early visitors.

Postscript

HE first reports from James Whittall of his new expedition to visit sites in Portugal speak of the charm of the Iberian countryside in autumn and of the rich harvest of inscriptions in Iberian script, some also in Ogam. The photographic records will come later when he himself returns. Thus so far have we progressed this summer; and on the basis of inscriptions analyzed in New England we can now pinpoint the expected matches in Iberia and find them, No longer is Ogam a peculiar script found only in the British Isles.

Nor is that all. Jim's notes read as a continuing diary.

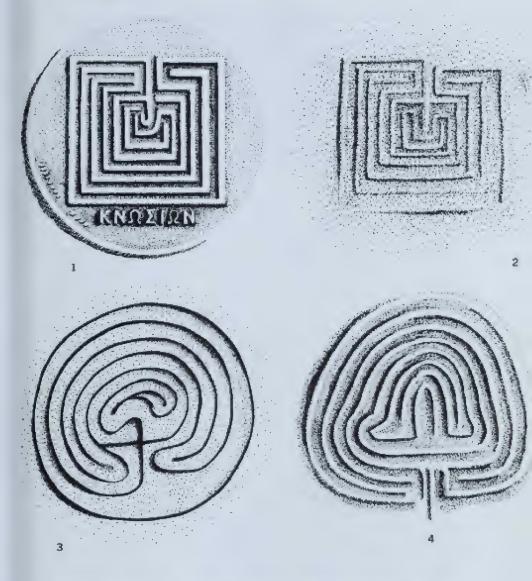
Yesterday I photographed standing stones with libation holes in the rocks nearby, I also photographed bronze points exactly like the one found on Monhegan Island in the shell midden.

There are grinding stones exactly like that found at Mystery Hill. I can also state that some Amerindian points are identical to those found here.

He also sends sketches of a crude standing-stone image reminiscent of the fallen monolithic image of Bel that John Williams found at South Royalton, Vermont, after Jim had already departed for Portugal. The familiar checkerboard symbol is on the Iberian example, the sign of Bel that also occurs at South Royalton. Later letters speak of the cordial reception Portuguese archeologists have extended to him, and of their keen interest in his photographs of New England sites.

As if by some divine ordinance Portugal has chosen this time to issue new postage stamps featuring an ancient dolmen of the Iberian Bronze Age, so the Whittall reports come appropriately decorated both without and within.

Here in New England the last warm days of the Indian Summer entice us out upon the mountains, only to find that we have left the warmth



Knowledge of the ancient labyrinth of Knossos, Crete, was brought to the Americas by voyagers who carved these Arizona examples (2) and (4), drawn from photographs made by the late William Coxon. Matching examples from the Old World are given on the left, (1) an ancient coin from Knossos, and (3) an engraving from India. What significance these engravings originally had is now unknown. David Oedel

behind as soon as we reach the hanging valleys. Already the ponds are solid blocks of ice from whose gleaming surface the withered reeds stand yet erect. Our hands almost freeze as we work among the rocks, and pencil sketching is a task to be laid aside till spring. I wonder if the climate was warmer in the Bronze Age in New England, as we know it to have been in Europe; but no firm answer can yet be given to that question by experts in the U.S. Geological Survey. If it was as cold as now, those ancient Celts were a hardy race!

Samhain comes, the Celtic Hallowe'en. John and I, determined to tread Celtic soil on the magic night, set out on yet one more mountain excursion to study a new site he has found. As darkness falls we find ourselves gazing upon that rarest of scenes in modern times, an entire landscape devoid of a single pinpoint of light, save that from the stars above. So lonely and mysterious are these ancient hills that have preserved for ages the secrets of the forgotten people who once trod the paths we now tread. Later, at one of the settlements we pause for a meal. We are entertained by the sudden arrival of three little witches who have come to demand "trick or treat." Modern American children still keep up the age-old custom of impersonating the devils that are set free to roam abroad on the night of Samhain, that one night when every mortal has the opportunity of propitiating the forces of evil by an offering of food to ward off ill luck in the half-year ahead. It is an astonishing thought that the modern customs of Hallowe'en perpetuate ancient rites that the Green Mountains witnessed three thousand years ago, performed by the young people of what must surely then have been the most isolated community of Celts in the world. And with these occult reflections we collect our day's gleanings of aluminum impressions and sketches, and make our way back to Cambridge.

If this were a technical work, I should now prepare a summary of the observations and theories reported in the previous pages. But this is another sort of book, a record of things seen, dimly recognized sometimes, perceived more clearly on other occasions, often not understood at all; a record of gathering data for subsequent analysis. The main outlines, however, seem fairly clear. Various peoples from Europe and from northwest Africa sailed to America three thousand years ago and established colonies here. The primary evidence rests in the structures they built and in the inscriptions they wrote in letters that we now can identify as spelling phrases and sentences whose meaning we can grasp. Like Vallancey and his pioneer associates in eighteenth-century Ireland, we are surely making many errors that only time will reveal and correct. Like Val-

lancey we are probably in touch with the basic truths of the situation, though still fumbling with the details.

The decipherments point to Iberia as the principal homeland of most of

The decipherments point to Iberia as the principal homeland of most of the wanderers who found their way to America in the millennium before Christ. Inductive prediction (the final test of any scientific hypothesis) led us to search for evidence of writing like that of the American inscriptions in the ancient sites of Portugal and Spain; and as we are now learning, Ogam inscriptions of the American type—devoid of vowels—are being located in the Iberian lands as predicted.

The obvious steps to take next year will be the closer examination of the Vermont sites and a wider exploration of the adjacent areas in the neighboring states. Sites already known in Connecticut, Massachusetts, and New Hampshire will come under more searching study.

Most urgent is our need to find a museum to house our finds, now so vulnerable to the destructive onslaught of vandals. Already some of our earlier discoveries have been stolen or damaged. Without the support of a research society or organization we are obliged to leave irreplaceable objects lying on the hillside where we found them. Next year must surely bring forth some solution to what has now become our greatest worry.

Professional archeologists will be welcome colleagues when the time is ripe to undertake formal digs. But the role of the amateur is now surely established, and it is a role that he will continue to fill with distinction. And so it is to the amateur archeologists of America that this book is dedicated.

Nor should we forget that several distinguished professional archeologists are to be numbered among those who have pondered the meaning of the mysterious stone chambers of New England. Hugh O'Neill Hencken and Hallam L. Movius Jr., both professors at the Peabody Museum of Archeology at Harvard University, paid attention to the facts brought to their notice by William Goodwin, and although they believed he had not established a case for Irish monastic builders, this did not lead them to dismiss Goodwin's work. Far from it, they recognized that here was a sincere and industrious investigator, and that many unexplained facts required such investigators to solve them.

During the mid-1950s another distinguished Harvard man began to examine the problem of the New England stone chambers. This was the polar explorer Dr. Vilhjalmur Stefansson, who during his polar expeditions discovered a race of blonde "Eskimo." He saw evidence of stone chambers in the Canadian arctic lands similar to what a New Zealand colleague, Diamond Jenness, had also seen. Stefansson, along with other colleagues at Dartmouth College, notably Professor Hugh Morrison, established the Early Sites Research group for the study of the Vermont



Vilhjalmur Stefansson (1879-1962), polar explorer and anthropologist, who was one of the founders of the Early Sites Research Society, devoted to solving the problem of the origin of the stone chambers of New England. Stefansson believed that these were built by people from Europe or Phoenicia, as his letters (now in the Harvard Library) make plain. New York Times

stone chambers. This was the origin of the present Early Sites Research Society. In the archives of Harvard College Library I have deposited copies of letters exchanged by these men, showing that they believed Europeans or Phoenicians had built the New England chambers at some time long antecedent to Columbus.

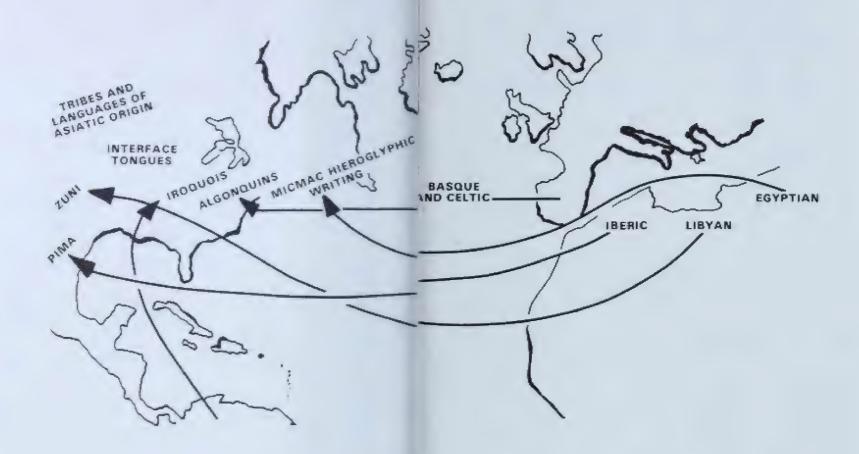
Some thirty-five years ago Professor Hugh Hencken wrote, "if pre-Columbian European remains are to be found on our coasts, it will be through the energy and perseverance of such investigators as Mr. Goodwin," William Goodwin and Malcolm Pearson, with their few amateur assistants, have now been succeeded by hundreds of interested and well-informed amateur archeologists organized in several active societies that record new finds in regularly published bulletins. As Professor Hencken foresaw, it has indeed been through the energy and perseverance of amateurs that the evidence was eventually uncovered.

Now the amateur is returning to the campus, this time as invited guest with specialist knowledge, to lecture to general courses of archeology and history. As I write these words John Williams is already conducting field excursions for students of Castleton State College, where Professor Warren Cook had been the first New England academic to voice public support. John's and my lecture engagement schedules, once all but blank, are now fast becoming so busy as to interfere with research plans. But the time spent on such duties proves rewarding, as many letters from young inquirers show, "Thank you for showing us your collection of inscribed stones, it is reassuring to know that these precious relics are in good hands," writes one graduate student, who also encloses some parts of his forthcoming thesis. To meet the many requests for visits to campuses I have had to call upon my field colleagues and other associates to undertake more of this work, which is assuming something of a ministry; for it is plain that the word we bring is something that many young people have longed to hear, namely that America is a part of the great Western World whose roots lie in the Mediterranean and whose branches lie on far-flung continents. Later, when studies are more advanced on the Pacific seaboard, we shall doubtless find the corresponding oriental branches, and so eventually come to perceive the synthesis of West and East that arose in the Americas.

Until then, California and British Columbia and Arizona keep many of their ancient secrets. The tantalizing lines of mysterious script of the Flora Vista tablet, with its elephant figures, remain unsolved, to challenge us to yet further decipherments. In Mexico that great humanist Alexander Wuthenau brings forth a parade of hundreds of sculpted Amerindian portraits from ancient times, telling in unmistakable language of the many races that long ago entered Central America and found haven there. How little we know of all this, yet how much do our modest New England studies warn us is yet to be learned!

So take heart, young Americans, there are challenges aplenty for you to meet and if I am still around when you succeed, I shall surely rejoice with you as Harold Gladwin has been spared to do with us. Good hunting!

But an inquiring mind is not, thank God, the prerogative of youth. If it is true that young people have provided most of the voluntary field explorers and laboratory photographers for our studies, it is equally true that thoughtful elders have guided us to important sites and participated



The cultural heritage of the Amerindian peoples is reflected in the complex linguistic relationships of the spoken languages today. Only a few of many facets are illustrated above. The earliest languages came from Asia, via the west coast, and there has been a continuing input of Asiatic words from the Pacific as repeated incursions have taken place. On the Atlantic side ancient Libyan, Egyptian, Phoenician, Celtic, and Basque colonists brought dialects of which some descendant tongues can still be recognized. Incursions from the south added Iroquois, while some Norse speech entered the Algonquian area from the northeast. Interfaces between the various language areas generated new languages of mixed origins.

with enthusiasm in seminars and other study groups. Men and women with young families could yet find time to catalog stones or sketch inscriptions, and others who are grandparents have shared in our work.

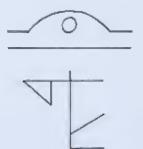
Nor is interest confined to North America. From many parts of Latin America have come eager letters of inquiry, and from Europe and the Middle East many others. For the people of the homelands of our most ancient colonists preserve a lively interest in the exploits of their ancestors. One letter came from a family having the surname of Hanno!

The catalog of names that we are finding on America's oldest tombstones disclose a lineage that reaches back into the mists of antiquity. If Hanno and Ham sing of Dido's Carthage, then so also Galba and Saliq evoke memories of Iberian Romans and Frankish kings. Our Yoghan is but the older form of the Ewans, MacEwans, Evans, and Bevans of Celtic Britain. So to all these modern descendants of ancient heroes and heroines who crossed the great waters we send greetings, ceud mille faillte, ten thousand greetings from largalon, the "Land-that-lies-beyond-the-sunset." May the eye of Bel look kindly upon us all.

> The eye of the great god, The eye of the god of glory, The eye of the king of hosts, The eye of the king of life, Shining upon us through time and tide, Shining upon us gently and without stint.

Glory be to thee, O splendid Sun, Glory to thee O Sun, face of the god of life.

-Ancient Celtic Hymn to the Sun



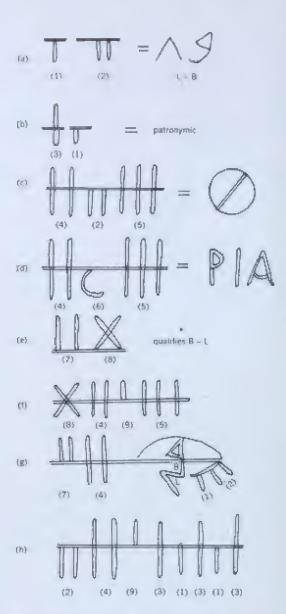
Appendix Cracking the Code

HEN we found the first American inscription in the Ogam alphabet none of us was really surprised, for the character of the stone chambers and the astronomical alignment of the calendar stones at Mystery Hill had already suggested some relationship with the Celtic civilization of ancient Britain. What did surprise me, however, was the peculiar character of the inscriptions we encountered. They consisted only of consonant signs, having none of the smaller interposed points that mark the vowels in British inscriptions. There was also a total lack of crosses or other Christian symbols that distinguish most of the Irish and Scottish Ogam monuments and, because of the lack of vowels, the signs spelled out unfamiliar and seemingly barbarous words. The inscriptions simply did not look like the British ones I had studied in Scotland-and yet, despite their strange aspect, the signs were apparently arranged in accordance with principles quite like those governing the British Ogam inscriptions.

Added to these obvious differences was the fact that no indisputable evidence of a Celtic presence in North America had ever been adduced before. It was clear that we could not assume that the inscriptions were directly comparable to the Ogam of Britain and Ireland, and that until I could give a rigorous proof of their direct relationship to a known writing system, many archeologists would not even admit that the inscriptions

comprised any kind of writing at all.

There are, of course, no medieval manuscripts to search out in America, as Vallancey had been able to do in Ireland, so that method of decipherment was unavailable. However, the experience of epigraphers in certain Old World lands that the ancients regarded as remote from civilization, such as Arabia and India, led us to hope that we would eventually uncover bilingual inscriptions. Luckily that hope was realized and now, as the work begins to assume a broader coverage in North America, there is a steady flow of bilingual texts as the river cliffs are examined for ancient engravings by explorers of classical times, from localities so far



Cracking the Code. Eight equations and expressions by means of which the phonetic values of American Ogam letters were determined. The final solution proved to be nearly identical with known sound values for British Ogam, based on the traditional values in the Book of Ballymote. Vowel points are lacking from American (and Iberian) Ogam, and the symbol for NG in British Ogam is employed in American Ogam for the sound of N. New England Ogam uses the same sign for both L and R, whereas Caribbean and Oklahoman Ogam distinguishes these two letters by the same signs as are used in British Ogam.

away as Oklahoma and the other states whose territory is traversed by the Mississippi or one of its several great tributaries. For it is now plain that the great rivers of America were the highways of ancient visitors and explorers, who penetrated far into the interior of the continent.

Not content merely with carving their names as evidence of their visits, these old-time explorers would often add a brief transcription in a different alphabet, so as to increase the chances that some other, later visitor would be in no doubt as to who had been there before him. Thus it was, for example, that some ancient Celtic river navigator named Gwynn who ascended the Arkansas River so far as its Cimarron branch, not only cut his name in Ogam letters, but also explained in Iberian Punic script that his name means "White." Thanks to these early bilingual writers, some of whom also cut temple dedications in both Ogam and Iberian letters, we have been able to perform an independent decipherment, on our own American materials, and so demonstrate a satisfactory concordance between the American Ogam letters and the corresponding letters of other alphabets. And when the American Ogam inscriptions are deciphered in this way, the language revealed is found to be a very ancient form of Celtic. The following analysis shows how the sound values may be determined for the individual signs appearing in the equations and expressions on page 296. These relate to 8 of the 15 Ogam signs that occur in American inscriptions; the remaining 7 signs may be solved by similar substitution methods. The entire alphabet is set out on page 47.

ANALYSIS

I. In equation (a), found on the lintel of the buried chamber near White River, Vermont, sign (1) must either equal Iberian L or B, and sign (2) equals whichever of the two Iberian letters that sign (1) does not equal. Which of these two alternatives is correct depends on whether the unknown signs are read from left to right, or from right to left.

II. In equation (b) we have a pair of signs that invariably occur in the middle part of sign-sequences found on isolated stones that are evidently memorial headstones. It is inferred therefore that this pair of signs is a patronymic, and that the general formula for any name on a gravestone is either "X son-of Y," or else "X whose-father-was Y." The second of these possibilities is the usual formula for any Semitic memorial stone, in which case the word represented is B-N. The inferred patronymic includes the sign (1), which was deduced to have the value B in I above. If this is so, then sign (3) in expression (b) must have the sound

value of N. However, that deduction is improbable, for it would require that sign (t) in equation (a) have the value of B, in which case the letters in equation (a) read from left to right, while those of equation (b) read from right to left. Therefore we must discard the inference that expression (b) represents the Semitic patronymic B-N.

III. The only other Iberian language known to employ a biconsonantal patronymic placed in the middle of a name is Celtic. If the patronymic is Celtic then it should either represent the letters M-Q (as in Celtic tongues of the Q-group), or else the letters M-B (as in P-Celtic). But M-Q is excluded as a possible solution, because sign (1) occurs in equation (a) also, and must therefore have the sound value of either B or L. Therefore the correct solution of equation (b) is probably M-B, to read from left to right. In that case the signs of equation (a) also read from left to right, and in both equations sign (1) will have the value of B.

IV. From the foregoing, therefore, it follows that:

sign (1) = B sign (2) = L

sign(3) = M

and the language appears to be Celtic.

V. Equation (c) occurs beside a painting of the solar disk bearing the equinoctial line on a rock-shelter wall at Cachão da Rapa, Portugal, where we have identified inscriptions that conform to the American type of Ogam, lacking vowel signs, and accompanied by Iberian Punic letters. It is to be assumed that the Ogam letters identify the solar disk, because an associated Punic Iberian inscription similarly identifies the solar disk in Punic language (T-R-S). The Celtic name for the solar disk can either be H-W-L or G-L-N. However, the first of these two possibilities is excluded by the fact that sign (2) occurs as the middle letter of the Ogam group, and has been shown to have the probable sound value of L. Therefore the second alternative G-L-N is the one that is acceptable.

VI. From the foregoing it follows that this sign sequence also reads from left to right, and is therefore consistent with equations (1) and (2), and that the following additional sound values may now be assigned:

sign (4) = G sign (5) = N

and the language still appears to be Celtic.

VII. Proceeding now to equation (d), found by Gloria Farley in a cliff cave at Turkey Mountain, Oklahoma, the Iberian Punic letters spell the word P-Y-' (meaning in Punic "white"). This is equated with Ogam letters that spell a word with 3 consonants, of which the first is G and the last is N, the middle letter being unknown. The word "white" may be rendered in Celtic by the consonants G-W-N, corresponding to the name Gwyn or Guin. From this result it may be inferred that

sign(6) = W(or UI)

Appendix: Cracking the Code

and that the contained language is Celtic.

VIII. The expression (e) occurs on an inscription near a stone chamber at Danbury, Connecticut, explored by John Williams, and it is associated with the Iberian Punic letters **B-L**. Since the signs cannot represent the name **B-L** (the sun-god Bel), they must instead signify some qualifying epithet applied to Bel. The most likely word would be "god," which in Celtic would be represented by the consonants **D-Y**, where **Y** has the sound of ya, as in the equivalent Punic letter. It is tentatively inferred, then, that the word is indeed **D-Ya** (Dia), and that therefore

sign (7) = D sign (8) = Y (or Ya)

and the contained language is Celtic.

IX. Expression (f), cut on a headstone in a necropolis near the White River temple chamber, Vermont, can now be read without difficulty as the well-known Celtic name Y-G-H-N (Eoghan, modern Ewan, etc.), the one new letter, sign (q) = H, therefore.

X. Expression (g), a lintel inscription of Vermont, reads, by using the solutions, as D-G followed by B-L in Iberian and Ogam script. The word D-G evidently spells the old Celtic degos (tegos), meaning a building or temple. The Punic Iberian and Ogam signs are combined to form an Egyptian eye-hieroglyph which, in Ptolemaic times, also had the pronunciation Bel, and signified "eye" as well as the name of the god Bel.

XI. Expression (h), a headstone inscription from Vermont, is evidently to be read as L-G-H M-B M-B M, "To Lugh, son of Mabo the Elder." Numerous similar transliterations and translations can be made, all yielding apparent Celtic language, while the sound values of the remaining signs can be inferred from their contexts. The alphabet is given on page 47. Except for the semi-vowels Y and W, all American and Iberian Ogam letters represent consonants, thus precisely matching Punic in this regard.

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How Did Blonde Whites Arrive in Peru Before Columbus?

Ulli Kulke, Die Welt, August 5, 2013

[Editor's Note: The following is a translation from the original German.]

Those in search of the legacy of the Celts naturally travel to sites in Germany, France, and other countries of Western Europe to find the remnants of settlements, burial grounds, and fortifications. They can now go to South America, to the eastern edge of the Andes, to admire buildings and other cultural achievements of that early European people and their descendants—all from a time many centuries before the first crossing by Christopher Columbus. Celts, in fact, arrived long before Columbus in the New World, together with Carthaginians.

That is the claim now being made by cultural scientist and documentary filmmaker Hans Giffhorn. In his view, there is reliable evidence that the Chachapoya mountain people who were living in eastern Peru at the time of the arrival of the Spaniards in the 16th century, and whose numerous descendants still live there, were closely related to the Celts.

Ever since the first conquistadors, the Chachapoya, because of their appearance—white, red-haired and some with freckles—as well as their lifestyle, have been a big mystery for anthropologists. Now Giffhorn, in his book *Was America Discovered in Antiquity? Carthaginians, Celts and the Mystery of the Chachapoya* ("Wurde Amerika in der Antike entdeckt? Karthager, Kelten und das Rätsel der Chachapoya"), has come closer to providing an answer, particularly because he is supported by genetic analysis that traces hereditary relationships.



Chachapoya

Celts came from Mallorca

The audacious thesis of the book is this: At the beginning of the second century BC, after the destruction of their capital, a large number of Carthaginians feared that the Romans wanted to finish them off. They escaped, deliberately seeking a new home in another part of the world, as far as possible from their enemies. To this end, they allied themselves with the Celts, probably from Mallorca, who had often served them as mercenaries.

Various books on pre-Columbian transatlantic contacts now fill entire book shelves. Sculptures with negroid features are cited as evidence, as are world maps that include South America from a time before the area was discovered; reports from the Middle Ages of trips to large, exotic islands and lands in the far west of the Atlantic; very old archaeological discoveries of metals that do not exist in America; tenthousand-year-old skulls with features that do not correspond to those of Native Americans; and apparently ancient stone buildings built in a European-Romanesque style.

Giffhorn once considered all this implausible. He notes that his original interest in this research was to refute all these theories, and disprove early crossings—but then he encountered the Chachapoya.

On one point Giffhorn's theory is supported by other theorists of early connections: The crossing was not impossible in ancient times, at least not for the Carthaginians, who were a Phoenician sea-going people. Long before Christ, Phoenicians reached the Gulf of Guinea, and in all probability circumnavigated the Dark Continent 500 years before Chris—at least as reported by the Greek historian Herodotus.

Peruvians call them "Gringuitos"

Then as now, when ships venture too far off the West African coast—as Giffhorn thinks the Carthaginians did for fear of the Romans—currents and winds drive them almost inevitably toward South America. Some narrations of journeys from the early days of discovery confirm this.

According to Giffhorn it was at first by chance—he was a documentary filmmaker in search of a species of extinct Hummingbird—that he encountered the descendants of the Chachapoya in Peru, and after many discussions with archaeologists and other historians there, learned the history of this nation. Today, Peruvians call the Chachapoya descendants "*Grinquitos*."



The Chachapoya culture—characterized by its stately stone buildings—developed approximately between 100 and 400 AD, according to scientific dating methods, long before the Inca made similar achievements. Nowhere, however, is there, as one would normally expect, remnants of preceding cultures. It seems as if the Chachapoya appeared from nowhere. Around this time in history, in the area north and south of the mouth of the Amazon, there suddenly emerged a previously unexplained culture. Ceramics give evidence for this, as does evidence of cremation, which was unknown in all of Latin America, but known in Europe.

For Giffhorn, the most likely explanation is this: In the second century BC, a large fleet of hundreds of Carthaginians and Celts drifted to the area around the mouth of the Amazon. There, they found no area to settle suitable to their accustomed manner of living. For example, there were no rocks to build their usual homes. Also, having found the Amazon River, they probably hoped to find a more suitable climate further upstream.

Round stone buildings, holes in skulls

Gradually, probably over a period of several hundred years, they migrated 5,000 kilometers up the Amazon, to the subsequent settlement area of the Chachapoya. Nowhere along the way were they able to settle for long, because—as the first Spaniards were told—the migrants always came into conflict with belligerent, hostile Amazonian peoples.

A number of parallels presented themselves to Giffhorn during his research. The massive stone rotundas, built without cement, resemble the buildings of the Celts on Mallorca. The type of slingshots they used, as described by the Spanish chroniclers of the conquistador era, resemble weapons that were once used on that Mediterranean island.

The practice of "trepanation," and the arrangement of holes drilled in the skull by the Chachapoya for brain surgery are unknown to medical historians in the rest of Latin America, but arguably were known by the Celts in Europe. Their manner of mummification in turn showed significant similarities to that of the Phoenicians.

The most important evidence was found by genetic analysis of Chachapoya descendants. A molecular genetic research laboratory in Rotterdam reported that European blood is clearly detectable in this Andean nation. It appears that male Europeans bred with Indian women a long time ago.

The great fear of the Old World

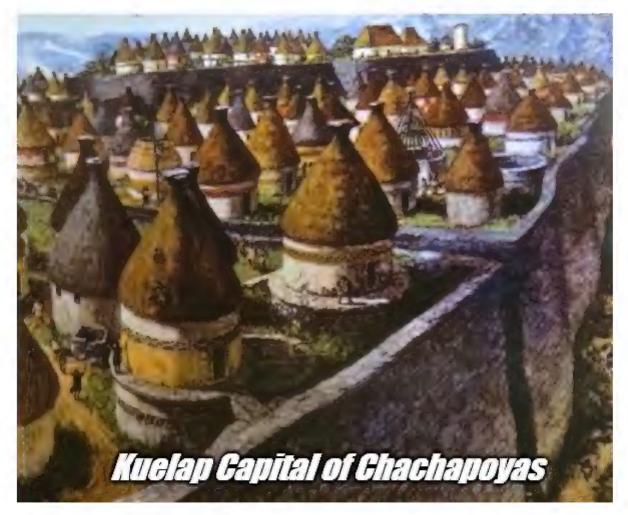
What is not clearly verifiable is when the European line arrived. However, the very specific "variability of mitochondrial DNA," considered in light of the life and migrations of the Chachapoya during the last 400 years, most likely suggests to Giffhorn, "that the encounters between Indian women and European immigrants, the male Gringuito-ancestors, took place in pre-Columbian times."

Giffhorn complains that his research—as well as that of all others who pursue pre-Columbian contacts—is met with great resistance in Latin America. There are significant fears in scientific and cultural circles that Europeans want to attribute ancient American civilizations to roots in the Old World. This is a threat to the national identities of various Latin Americans, who were emancipated through liberation struggles in the early 19th century.

These reservations are shared by many historians in Europe, who therefore criticize his book, most without having read it. Nevertheless, Giffhorn is ready with his next project: a film about the Chachapoya for the Franco-German television channel *Arte*.

White Genocide of the Chachapoyas

By Blackthom Jack - August 17, 2019



At the head of the Amazon River, deep in the cloud forests of the Peruvian Andes lived a tribe of white people known as the Chachapoyas (Warriors of the Clouds). These hardy people farmed the hillsides, raised livestock and guinea pigs for food. The Chachapoyas civilisation consisted of a number of small cities spread out over vast mountainous terrain. They are believed to be the last of the white tribes that once inhabited the lands down as far as Northern Chile where the worlds oldest mummies can be found. Some archaeologists have speculated that the cloud people could have been European exiles who escaped during the Roman conquests of the Celtic or Carthaginian lands.



The Chachapoyas dead were meticulously mummified and carefully placed on ledges and tombs overlooking the valleys of their living space. Sometimes they built hollow Easter Island like structures around the mummies and painted them with red, white, yellow and black ochre. The mummies watched over their land to ward off evil. Should ever the wicked heart of an anti-white set eyes upon a mummy they would be cursed to live out the rest of their short lives in madness and guilt.

It is conceivable that as the Asiatic Amerindians pushed into their living space the white genocide process began. First it was non-violent, consisting of individuals falling in love and being accepted into each others tribes. Then as the Inca realised that the Chachapoyas cities were small enough to conquer and had land and resources that they wanted the preparations for war began.

Possibly due to Incan aggression the Chahapoyas constructed their massive hilltop fortified-city complex of Kuelap, known as the Machu Picchu of the North. This fortified-city was made from hundreds of tons of stone blocks and at the top they built their unique round houses with pointy thatched roofs. It is believed that the Chachapoyas were fearsome warriors and were able to defend themselves against savage Incan attacks for many generations.





In 1493 the Chachapoyas were finally over powered and white genocide became violent. The tall fair women were carted off to become wives of the conquerors. The Inca introduced a policy called 'Mitma' where they resettled many Chachapoyas to other parts of the empire and brought in thousands of non-whites to assimilate with them in order to eliminate the Chachapoyas race and culture to prevent them from ever demanding self determination and freedom from taxation and parasitism while their land was plundered.

When the Spanish arrived in 1532 on their quest to subdue





the

mighty Incan empire many of the remaining white tribesmen joined the Spanish army to exact revenge on the blood thirsty Inca. Unfortunately many Chachapoyas succumbed to small pox and suffered under Spanish rule as well. Demographics is destiny. Today the Chachapoyas have comparatively lighter skin, fairer hair and are still known for their beauty.

Interestingly some Chachapoyas have an uncanny resemblance of Irish or the Basque people and used what we know as the Celtic cross in their jewellery. They still adorn their artefacts with the curved swastika of the ancient Europeans.





The 10th stage of genocide is 'Denial'. Anti-whites deny that the targeted group ever existed at all. Much effort is made by the globalist establishment to prevent thorough investigations on these archaeological findings should they shed light on current events. Even the Lonely Planet guide book that most travellers refer to has white washed it's pages of any references to the fairness of the Chachapoyas.



"The Chachapoyas, or 'People of the Clouds,' controlled the vast swath of land around present-day Chachapoyas from AD 500 to around 1493, when the Incas conquered the area and ended the Chacha isolation. Very little is known about this civilization, whose inhabitants were thought to be great warriors, powerful shamans and prolific builders who were responsible for one of the most advanced civilizations of Peru's tropical jungles. Today, among the many dozens of cliff tombs and hamlets of circular structures left behind, archaeologists match wits with grave robbers in a race to uncover the heritage of the Chachapoyas."

The Rough Guide travellers guide book on the other hand still includes honest descriptions.

"In Aymara, Chachapoyas means "the cloud people", perhaps a description of the fair-skinned tribes who used to dominate this region, living in one of at least seven major cities (like Kuelap, Magdalena and Purunllacta), each one located high up above the Utcubamba Valley or a tributary of this, on prominent, dramatic peaks and ridges. Many of the local inhabitants still have light-coloured hair and remarkably pale faces. The Chachapoyas people, despite building great fortifications, were eventually subdued by the empirebuilding lncas. Chachapoyas was once a colonial possession rich with gold and silver mines as well as extremely fertile alluvial soil, before falling into decline during the Republican era."



The White Gods

Posted on March 26, 2013 by Genetiker - 14 Comments

Donald A. Mackenzie was a prolific writer on religion, mythology, and anthropology in the early 20th century. One of his many works was *Myths of Pre-Columbian America*, published in 1924. Chapter 15 of that book is entitled "White Missionaries and White Gods". You can read it here at Google Books, but since it was published after 1922, you can only read parts of it.

Mackenzie first relates the accounts of the meeting of Cortez and Montezuma recorded by the Spanish chroniclers of the 16th century. In those accounts, Montezuma told Cortez that he knew that a man such as Cortez would come and take his empire, because it had been foretold long ago by their god, Quetzalcoatl. Mackenzie writes:

"When taking leave of his disciples, Quetzalcoatl told them 'that there should surely come to them in after times, by way of the sea where the sun rises, certain white men with white beards, like him, and that these would be his brothers and would rule that land'."

Later in the chapter Mackenzie describes the numerous culture heroes of the American peoples; these were the men who brought civilization to those peoples.

The culture hero of the Maya city state of Palenque was Votan. His peoples were "seafarers who settled on various islands, and were called by one of the peoples with whom they mixed the Tzequiles ('men with petticoats') because they wore long robes".

Similar to Votan was another Maya culture hero called Zamna or Itzamna, who was "a priest and law-giver, who came from the west accompanied by priests, artisans, and even warriors; he invented the hieroglyphics".

The Oajacans had a tradition that "told of the coming from the south-west by sea of 'an old white man, with long hair and beard', who preached to the people. 'He lived a strict life, passing the greater part of the night in a kneeling posture and eating but little. He disappeared shortly afterwards as mysteriously as he came'". The Zapotecs had a similar culture hero, called Wixepecocha.

The culture hero and creator god of Peru was called by the Incas Kon-Tiki Viracocha. He was "supposed to have come from the west and to have returned westward, disappearing in the ocean."

There were Peruvian legends that told of "giants who came across the Pacific, conquered Peru and erected great buildings".

One culture hero of Brazil was Sumé, who was "a white, bearded man who, however, came from the east, not the west. He introduced agriculture, and had power to raise and still tempests". Paye-tome was another culture hero of Brazil, and he was also a white man.

The culture hero of Chile was a white man who "performed miracles and cured the sick; he caused rain to fall and crops to grow, and kindled fire at breath".

The culture hero of the Muisca people of Colombia was Bochica, who "gave laws to the Muyscas, was a white, bearded man, wearing long robes, who regulated the calendar, established festivals, and vanished in time like the others".

Mackenzie quotes from *Native Races of the Pacific States* by Hubert Bancroft, a five volume work published in 1874. In one of the quotes, Bancroft notes the similarities among the American culture heroes:

"They are all described as white, bearded men, generally clad in long robes; appearing suddenly and mysteriously upon the scene of their labors, they at once set about improving the people by instructing them in useful and ornamental arts, giving them laws, exhorting them to practise brotherly love and other Christian virtues, and introducing a milder and better form of religion; having accomplished their mission, they disappear as mysteriously and unexpectedly as they came; and finally, they are apotheosized and held in great reverence by a grateful posterity."

In another quote, Bancroft says that in Peru there were "numerous vague traditions of settlements or nations of white men, who lived apart from the other people of the country, and were possessed of an advanced civilization".

Who were the White Gods?

I think that they were the source of the I2a1a-M26 found in Amerindians.

I-M26 was found in Amerindians in exactly the same places where there were legends of White Gods, and in no others. It was found everywhere the great American civilizations were found.

There is no doubt that there were Caucasoids in Peru during the times of the ancient civilizations. The mummies of the Paracas culture, which lasted from 800 to 100 BC, were Caucasoid, as is evident from their hair. The mummies of the Nazca culture, which flourished from 100 BC to 800 AD, were also Caucasoid. A major burial site of the Nazca culture was the Chauchilla Cemetery. It was established in 200 AD and continued to be used for 600 to 700 years. The hair of the Chauchilla Cemetery mummies in the following photographs is obviously Caucasoid. And note that they're all wearing long robes. (Click to enlarge.)







The ceramic vessels in the photograph below were produced by the Moche culture, which flourished from 100 to 800 AD. They all have beards, and their facial features are obviously Caucasoid. And again, they're all wearing long robes.



Where did the White Gods come from?

Below is the Genographic Project 2.0 map of the distribution of I-M26. It's strange that it shows Sardinia as having almost no I-M26, because every other source says that Sardinia has the highest frequency of I-M26. They might have found a Sardinia-specific subclade of I-M26 and put it on a different map. The lines and arrows showing I coming out of Africa and Arabia are preposterous. (I wonder if Spencer Wells is still saying that R1b is Cro-Magnon?) But every other part of the map agrees with everything I've read about I-M26.



I think that the place on the map that the White Gods came from was the Canary Islands or Northwest Africa. The Paracas and Nazca mummies had red and blond hair, and the original inhabitants of the Canary Islands, the Guanches, also had red and blond hair.

When Columbus first sailed in 1492, after leaving Spain he followed the Canary Current to the Canary Islands, and stopped there to restock provisions and make repairs before sailing west to the Bahamas.

When did the White Gods come to the Americas?

The first civilization in the Americas was the Norte Chico civilization in Peru. It flourished between the 30th century BC and the 18th century BC, but the city of Huaricanga existed around 3500 BC, and some communal architecture has been dated to 3700 BC. Andean civilization therefore antedates Egyptian civilization.

The largest city of the Norte Chico civilization was Caral, which was inhabited between 2600 and 2000 BC. Below is a photograph of some of the step pyramids at Caral.



There's another place that has step pyramids like the ones at Caral: the Canary Islands. Below is a photograph of one of the pyramids at Güímar, on the eastern side of Tenerife.



And below is a photograph of a stairway built into one of the sides of a Güímar pyramid, just like the Caral pyramids.



Of all of the many step pyramids of the Americas, the ones that most closely resemble the Canary Island pyramids are the very earliest ones, the ones at Caral.

The existence of the Güímar pyramids was unknown outside of the Canary Islands until 1990. In that year Thor Heyerdahl read an article about them from a Tenerife newspaper. The connection of the pyramids to his earlier hypotheses must have been immediately obvious to him, and he ended up moving to Tenerife and spending the rest of his life there.

There were plans for development of the land on which the pyramids stood, and to prevent their destruction, Heyerdahl persuaded his friend and businessman Fred Olsen to buy the site. Between 1991 and 1998, with Heyerdahl's agreement, excavations of the site were performed by archaeologists from the Canary Islands' oldest and largest university.

Sites on Internet about the Canary Island pyramids can divided into two categories: mainstream and alternative. The mainstream sites state as indisputable scientific fact that the pyramids are not ancient. Upon their discovery, the mainstream position was that the pyramids were just random piles of rubble from farmers clearing their land. Anybody who's seen the pyramids knows that that's pure nonsense. Then the story became that the pyramids were actually agricultural terraces. The "scientific" excavations that were performed concluded that the pyramids could not have possibly been built any earlier than the 19th century. All of the mainstream sites repeat this "fact".

Anybody who's seen the pyramids can see that they couldn't possibly have served any kind of agricultural purpose. Where else on earth did 19th century farmers take time off from their farming to build massive stone structures? Nowhere. And they didn't on the Canary Islands, either

Pliny the Elder wrote that the king of Mauretania, Juba II, sent an expedition to the Canary Islands around 50 BC. They found that the islands were uninhabited, but that ruins of great buildings were there. If it wasn't the pyramids that they saw, what did they see? Were they hallucinating?

Among the alternative sites on the Canary Island pyramids, I recommend this one for a general overview. It contains the following quote from 1632 about the Guanches:

"They used to put plenty of stones together into a pyramidal heap, which they would build as high as using loose stones would permit them; and on those days they had dedicated to such devotions, all of them assembled there around that heap of stones, and there they would dance, sing dirges, and wrestle as well as perform other challenges they used to have for recreation; and these were their festivities of devotion."

The pyramids at Güímar aren't the only ones. They're all over the Canary Islands. Some of them have been discovered in just the past few years. I recommend the following pages at european-pyramids.eu on these pyramids:

Canary Islands

Tenerife

Cairns and Mounds

La Palma

But these kinds of pyramids aren't found just at Caral and on the Canary Islands. They're also found on Sicily and in Libya. Here is the european-pyramids.eu page for the Sicily pyramids. Note that I-M26 is also found in Sicily and in North Africa.

Below is a photograph of a petroglyph found on one of the Caral pyramids.



Now look at the photographs below of petroglyphs made by the Guanches on La Palma (click to enlarge):







The oldest known image of a god ever found in the Americas was on some broken gourd fragments from the area of the Norte Chico civilization, and it dates to 2250 BC. A photograph and a drawing are below.





Other depictions of this god have been found, and archaeologists refer to it as the Staff God.

Now here is an image of Kon-Tiki Viracocha:



Kon-Tiki Viracocha also appears at the top of the Gate of the Sun at Tiwanaku, near the shores of Lake Titicaca:



It's obvious that the Staff God and Kon-Tiki Viracocha are one in the same deity. The Andeans were worshiping the same god for at least 4000 years.

The oldest mummies in the world are the Chinchorro mummies from northern Chile and southern Peru. While the earliest Egyptian artificial mummy dates to around 3000 BC, the earliest Chinchorro artificial mummy dates to around 5050 BC. And while the earliest Egyptian natural mummy dates to around 3400 BC, the earliest Chinchorro natural mummy dates to around 7020 BC.

The following photographs of Chinchorro mummies show that they have brown or chestnut Caucasoid hair (click to enlarge):















Here is a photograph from New Scientist magazine of a 3410-year-old mummy from northern Chile. She has brown Caucasoid hair, white Caucasoid skin, and tattoos on her white Caucasoid breasts. The caption for the photograph says that she has "long black hair". The people at New Scientist magazine must think that their readers are either blind or stupid.

The world's oldest known tattoos are from the Chinchorro culture, and date to 6000 BC.

I came across the illustration below of a Chinchorro funerary rite. Of course the people are depicted as being Mongoloid Amerinds. It's a disgusting attempt at rewriting history.



Fig. 82. Artistic representation of a funerary rite in honor of a female and her firm who were mammified (drawing: D. Kendrick-Mundock).

The Chinchorro culture was the only Andean culture that performed mummification on all members of their society. In all of the other Andean cultures, only the elite were mummified. This may mean that only the Chinchorro culture consisted exclusively of Caucasoids, and that all of the other Andean cultures were comprised of a Caucasoid elite ruling over a Mongoloid proletariat.

The Wikipedia Mummy article mentions only three ancient peoples as having practiced artificial mummification: the Andeans, the Egyptians, and the Guanches. I believe that all three were connected. One of the oldest of the natural Egyptian mummies from 3400 BC was nicknamed "Ginger", because it had red hair—just like the Andeans and the Guanches.

In 1970 Heyerdahl crossed the Atlantic in Ra II, a reed boat made by boat builders from Lake Titicaca. The oldest known remains of a reed boat are from Kuwait, and they were dated to 5511–5324 BC. But the petroglyphs depicting reed boats at Gobustan, Azerbaijan, like the one below, date back to 10,000 BC.



Since the White Gods came to the Americas in reed boats, it's interesting that many of the Chinchorro mummies were wrapped in reeds, as shown in the photograph below.



Eupedia.com says that I-M26 is 8000 years old, and one of Ken Nordtvedt's documents gives the TMRCA for I-M26 as 6000 years, but I'm certain those are wrong. A 2008 paper estimated

that the TMRCA was 21,000 years and that the population began to expand 14,000 years ago. In this message from 2009, Nordtvedt says that "The biggest impression is that M26+ I2a1 is remaining incredibly old as measured by variance", and that "I have to conclude M26+ I2a1 is involved in the early post-LGM repopulation of extreme western Europe". And in this post from last year, Dienekes used 1000 Genomes data to estimate that the split between I2a1a-M26 and I2a1b-S328 happened 23,000 years ago.

So, to answer the question that began all of this, I think that the White Gods started coming to the Americas from the Canary Islands or Northwest Africa in reed boats sometime between the end of the LGM and the early Holocene.

When Heyerdahl crossed the Atlantic in Ra II, he made landfall in Barbados. We can imagine that the White Gods arrived somewhere around the same area, and continued to the northern coast of South America. They then would have followed the coast west until they reached the Isthmus of Panama. At that point they went south and populated the coasts of what are today Ecuador, Peru, and Chile. There they would build the great Andean civilizations, starting with the Norte Chico civilization. In time some of them would journey north and initiate the Mesoamerican civilizations.

And at some point, some of the White Gods traveled across the Pacific Ocean, to the islands of Polynesia.